TEST & MEASUREMENT
SELECTION GUIDE

RS PRO APPROVED

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HANDHELD DIGITAL MULTIMETERS

RS-608 DIGITAL METERSCOPE

| RS-608 DIGITAL METERSCOPE | 144-5337 |

High performance Digital MeterScope with double molded housing and IP67 functions. Bluetooth PC interface for easy data transfer and accuracy calibration.

Professional True RMS industrial digital MeterScope with oscilloscope functions and TFT colour LCD display.

MULTIMETER SECTION

- 100kHz bandwidth (voltage/current)
- AC, AC+DC true-RMS measurements
- IP Rating 67 & CATIII 1000V/CATIV 600V

OSCILLOSCOPE SECTION

- Waveform display / record
- Auto search
- Real-time sample rate 500 Sps – 50 Msa/s
- Trigger function
- 10 set waveform storage/output

RS-989 DIGITAL MULTIMETER WITH BLUETOOTH

| RS-989 DIGITAL MULTIMETER WITH BLUETOOTH | 161-1624 |

RS PRO heavy-duty True RMS Industrial Digital Multimeter with Bluetooth.

Comes with TFT colour LCD display, fast A/D converting sampling time, high accuracy, built-in data logging and Trend Capture features making this instrument versatile and reliable. The IP-67 makes this multimeter dust and waterproof ideal for all kinds of working environments and suitable for industrial troubleshooting and maintenance work.

Can be connected to software on smartphones. Cloud service can be used to keep all the data safe for future reference. It has a waterproof double molded plastic housing design ideal for heavy-duty usage.

RS-9889 THERMAL IMAGING DIGITAL MULTIMETER

| RS-9889 THERMAL IMAGING DIGITAL MULTIMETER | 179-9512 |

This versatile thermal imaging multimeter is a great all round choice as it is durable, handheld and can be used for measurement of various circuit parameters such as voltages, currents or resistances. It also features a 2.8" TFT LCD colour display screen, allowing accurate results to be viewed without risk of incorrect readings due to faulty moving parts, as commonly found with an analogue multimeter.

Its built-in thermal imager has max, min and centre crosshair targeting, allowing the user to easily identify and measure the required temperature ranges. The RS-9889 also gives you the benefit of a Bluetooth BLE instant share function with thermal images transmitted via the Thermview+ app.

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RS-96XX HEAVY DUTY TRUE RMS DIGITAL MULTIMETER

| RS-9663 HEAVY DUTY TRUE RMS | 161-1626 |
| RS-9660B HEAVY DUTY TRUE RMS | 161-1629 |

RS PRO Digital Multimeter, Category IV rating ensure the highest level of protection against sudden transient over voltage and arcing flash-over with advanced DMM features and True RMS accuracy.

This rugged, waterproof and drop-proof multimeter will take whatever rough handling you dish out. Compact meters with double molded plastic housing and over sized high contrast 4000/6000 counts LCD display.

They are all CAT IV rated for 600V/CATIII 1000V.

HANDHELD DIGITAL MULTIMETERS

RS PRO S3 SOLAR PV MULTIMETER

Introducing the RS PRO S3 digital multimeter, a compact and robust handheld digital multimeter ideal for measuring a wide range of electrical parameters such as Voltage, Current and Resistance.

With the addition of capacitance measurements, selectable frequency measurements and PV measurement, this digital multimeter (DMM) is ideal for Photovoltaic applications, offering exceptional value with high quality and reliable results.

Bluetooth connectivity.

MODEL	199-3848
Absolute Maximum DC Current	10A DC
Absolute Maximum AC Current	10A AC
Absolute Maximum DC Voltage	1000V DC
Absolute Maximum AC Voltage	1000V AC
Absolute Maximum Resistance	40MΩ
Absolute Maximum Capacitance	10mF
Absolute Maximum Temperature	+400°C

MODEL	199-3848
True RMS	Yes
Maximum Frequency	100kHz
Battery Type	AA
Dimensions	82 × 46 × 165mm
Safety Category Level	CAT III, CAT IV

S3 SOLAR PV MULTIMETER — **199-3848**

RS PRO S2 HVAC MULTIMETER

The RS PRO S2 digital multimeter is a compact and robust handheld digital multimeter ideal for HVAC applications, offering exceptional value with high quality and reliable results.

It measures a wide range of electrical parameters such as Voltage, Current and Resistance and with the addition of capacitance measurements, selectable frequency measurements and temperature measurement.

Bluetooth connectivity.

MODEL	199-3847
Absolute Maximum DC Current	400mA DC
Absolute Maximum AC Current	400mA AC
Absolute Maximum DC Voltage	1000V DC
Absolute Maximum AC Voltage	1000V AC
Absolute Maximum Resistance	40MΩ
Absolute Maximum Capacitance	10mF
Absolute Maximum Temperature	+400°C

MODEL	199-3847
True RMS	Yes
Maximum Frequency	100kHz
Battery Type	AA
Dimensions	82 × 46 × 165mm
Safety Category Level	CAT III, CAT IV

S2 HVAC MULTIMETER — **199-3847**

RS PRO S1 INDUSTRIAL MULTIMETER

The RS PRO S1 digital multimeter is compact, robust and ideal for measuring a wide range of electrical parameters.

The device features a clean and user friendly interface with a large white LED backlit display, allowing you to easily display measurements in a wide range of environments. With Bluetooth connectivity, you can also save and share data quickly and efficiently to your smart device.

MODEL	199-3846
Absolute Maximum DC Current	10A DC
Absolute Maximum AC Current	10A AC
Absolute Maximum DC Voltage	1000V DC
Absolute Maximum AC Voltage	1000V AC
Absolute Maximum Resistance	40MΩ
Absolute Maximum Capacitance	10mF
Connectivity	Bluetooth

MODEL	199-3846
True RMS	Yes
Maximum Frequency	100kHz
Battery Type	AA
Dimensions	82 × 46 × 165mm
Safety Category Level	CAT III, CAT IV

S1 INDUSTRIAL MULTIMETER — **199-3846**

RS12 / RS14 MULTIMETERS

The RS12 digital multimeter (DMM) is a handheld tool which is essential for testing voltage, current and resistance. It comes with manual ranging so you can select the range you desire via the dial on the front of the device. There is also a "hold" function available.

The RS14 digital multimeter (DMM) is handheld tool which is essential for testing voltage, current, resistance and temperature. It is "auto-ranging" which means you don't have to figure out the range values, it will do all the hard work for you.

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MODEL	123-1939	123-1938
Absolute Maximum DC Current Measurement	10A	10A
Absolute Maximum DC Voltage Measurement	600V	600V
Absolute Maximum AC Voltage Measurement	600V	600V
Absolute Maximum Resistance Measurement	2MΩ	2MΩ
AC Voltage Bandwidth	45Hz - 450Hz	45Hz - 450Hz

MODEL	123-1939	123-1938
Dimensions	70 × 48 × 150mm	67 × 46 × 120mm
Weight	255g	200g
Safety Category Level	CAT III	CAT III
Safety Category Voltage	600V	600V
Operating Temperature	0°C - +50°C	0°C - +50°C
Battery Type	9V	9V

RS12	**123-1939**
RS14	**123-1938**

RS-660 HANDHELD MULTIMETER

The RS-660 digital multimeter (DMM) is a handheld tool which is essential for testing voltage, current and resistance. It comes with manual ranging so you can select the range you desire via the dial on the front of the device. There is also a "hold" function available.

MODEL	161-1625
Absolute Maximum DC Current Measurement	10A
Absolute Maximum DC Voltage Measurement	600V
Absolute Maximum AC Voltage Measurement	600V
Absolute Maximum Resistance Measurement	2MΩ

MODEL	161-1625
Dimensions	67 × 46 × 120mm
Weight	200g
Safety Category Level	CAT II
Safety Category Voltage	600V
Operating Temperature	0°C - +50°C
Battery Type	9V

RS-660 HANDHELD MULTIMETER	**161-1625**

IDM20 POCKET MULTIMETER

The IDM20 is a great value pocket digital multimeter with double-moulded plastic housing and a large, high contrast 4000 Counts LCD display. Features include non-contact detection and flashlight.

• Pocket size digital multimeter
• 3 3/4 Digit, 4000 Count LCD display
• Data Hold
• Resistance & capacitance measurement
• Frequency, duty cycle measurement

MODEL	123-1930
Absolute Maximum DC Current Measurement	200mA
Absolute Maximum DC Voltage Measurement	600V
Absolute Maximum AC Voltage Measurement	600V
Absolute Maximum Resistance Measurement	40MΩ
Maximum Frequency	9.999Khz

MODEL	123-1930
Dimensions	120 × 55 × 40mm
Weight	145g
Safety Category Level	CAT III 1000V, CAT IV 600V
Safety Category Voltage	1000V
Multimeter Type	Handheld
Battery Type	AAA

IDM20 POCKET MULTIMETER	**123-1930**

HANDHELD DIGITAL MULTIMETERS

IDM70 SERIES DIGITAL MULTIMETERS

Compact and rugged high performing digital multimeters with optical interface for transmitting measuring results to PCs. Ideal for single-handed use.

COMMON INFORMATION

- Handy and compact housing
- Large-scale display
- 6000 display count
- DCA µA
- Data Hold
- Min / Max function
- Frequency counter
- Capacitance measurement
- Auto power off
- Shock resistant (1 m drop)
- Protective holster with tilt stand and lead storage

Supplied with:
Test leads, protective holster, 2 × 1.5V Alkaline type AAA batteries (installed).

SPECIFICATIONS / RANGES / MODEL		IDM71 123-3239	IDM72 123-3242	IDM73 123-3243
Multimeter Type		Handheld	Handheld	Handheld
Current DC	Absolute Maximum Resolution Accuracy	6mA DC - ±1% + 2 digits	10A DC 0.1µA DC ±1% + 2 digits	10A DC 0.1µA DC ±1% + 2 digits
Current AC	Absolute Maximum Resolution Accuracy	6mA AC - ±1.5% + 5 digits	10A AC 0.1µA AC ±1.5% + 5 digits	10A AC 0.1µA AC ±1.5% + 5 digits
Voltage DC	Absolute Maximum Resolution Accuracy	1000V DC - ±0.5% + 2 digits	1000V DC 0.1mV DC ±0.5% + 2 digits	1000V DC 0.1mV DC ±0.5% + 2 digits
Voltage AC	Absolute Maximum Resolution Accuracy	750V AC - ±0.9% + 5 digits	750V AC 0.1mV AC ±0.9% + 5 digits	750V AC 0.1mV AC ±0.9% + 5 digits
True RMS		Yes	Yes	Yes
Maximum Frequency		60MHz	60MHz	60MHz
Display Type		LCD	LCD	LCD
Dimensions		76 × 38 × 158mm (without holster), 82 × 44 × 164mm (with holster)	76 × 38 × 158mm (without holster), 82 × 44 × 164mm (with holster)	76 × 38 × 158mm (without holster), 82 × 44 × 164mm (with holster)
Weight		400g	400g	400g
Safety Category		CAT III 1000V, CAT IV 600V	CAT III 1000 V, CAT IV 600 V	CAT III 1000V, CAT IV 600V
Safety Category Level		CAT III, CAT IV	CAT III, CAT IV	CAT III, CAT IV
Safety Category Voltage		600V, 1000V	600 V, 1000 V	600V, 1000V
Resistance	Absolute Maximum Resolution Accuracy	60MΩ - ±0.7% + 2 digits	60MΩ 100mΩ ±0.7% + 2 digits	60MΩ 100mΩ ±0.7% + 2 digits
Capacitance	Absolute Maximum Resolution Accuracy	6mF - ±1.9% + 8 digits	6mF 1pF ±1.9% + 8 digits	6mF 1pF ±1.9% + 8 digits
Operating Temperature		+11°C - +50°C	0°C - +50°C	0°C - +50°C
Battery Life / Type		300h / AAA 1.5V, AM4, IEC LR03	300h / IEC 6F22, NEDA 1604, 9V	300h / IEC 6F22, NEDA 1604, 9V

IDM90 SERIES DIGITAL MULTIMETERS

A superb range of rugged, easy to use industrial multimeters.

Our IDM90 series offers features to suit most electrical and electronic applications.

SPECIFICATIONS / RANGES / MODEL		IDM91E 123-3244	IDM93M 123-3245	IDM98IV 873-2360	IDM99IV 873-2367
Multimeter Type		Handheld 2000 count	Handheld 2000 count	Handheld 6000 count	Handheld 6000 count
Supplied with		Test lead set, fitted alkaline battery, protective holster and instruction manual	Test Lead set, fitted alkaline battery, protective holster and instruction manual	Battery installed, test lead set, user manual and protective holster	Battery installed, test lead set, user manual and protective holster
Current DC	Absolute Maximum Resolution Accuracy	10A DC 0.1µA DC ±1% + 1 digits	10A DC 0.1µA DC ±1% + 1 digits	10A DC 0.01A DC ±1 %	10A DC 0.01A DC ±0.8 %
Current AC	Absolute Maximum Resolution Accuracy	10A AC 0.1µA AC ±2.5% + 3 digits	10A AC 0.1µA AC ±2.5% + 3 digits	10A AC 0.01A AC ±1.5 %	10A AC 0.01A AC ±1.2 %
Voltage DC	Absolute Maximum Resolution Accuracy	600V DC 0.1mV DC ±0.5% + 1 digits	600V DC 0.1mV DC ±0.5% + 1 digits	1000V DC 1V DC ±0.09 %	1000V DC 1V DC ±0.08 %
Voltage AC	Absolute Maximum Resolution Accuracy	600V AC 0.1mV AC ±1.25% + 4 digits	600V AC 0.1mV AC ±1.3% + 4 digits	1000V AC 1V AC ±1 %	1000V AC 1V AC ±0.8 %
Temperature	Absolute Maximum Resolution Accuracy	-	-	-	+400°C 0.1°C ±1 %
Functions Measured		AC current, AC Voltage, Continuity, DC current, DC Voltage, Diode test, Resistance	AC current, AC Voltage, Continuity, DC current, DC Voltage, Diode test, Resistance	AC current, AC Voltage, Capacitance, DC current, DC Voltage, Resistance	AC current, AC Voltage, Capacitance, DC current, DC Voltage, Resistance, Temperature
True RMS		-	-	-	Yes
Maximum Frequency		-	200kHz	100kHz	100kHz
Display Type		LCD	LCD	LCD	LCD
Dimensions		84 × 31 × 175mm 95 × 50 × 192mm (with holster)	84 × 31 × 175mm 95 × 50 × 192mm (with holster)	190 × 94 × 48mm	190 × 94 × 48mm
Weight		-	550g (with Holster)	460g	460g
Safety Category		CAT III 600 V	CAT II 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V
Safety Category Level		CAT III	CAT II	CAT III, CAT IV	CAT III, CAT IV
Safety Category Voltage		600V	600V	600 V, 1000 V	600 V, 1000 V
Resistance	Absolute Maximum Resolution Accuracy	20MΩ 100mΩ ±0.75% + 1 digits	20MΩ 100mΩ ±0.8% + 1 digits	40MΩ 0.1Ω ±0.8 %	40MΩ 0.1Ω ±0.8 %
Capacitance	Absolute Maximum Resolution Accuracy	-	200µF 1pF ±2% + 4 digits	10mF 0.01mF ±1.2 %	10mF 0.01mF ±1.2 %
Operating Temperature		0°C - +50°C	0°C - +50°C	-10°C - +50°C	-10°C - +50°C
Battery Life / Type		300h / IEC 6F22, NEDA 1604, 9V	150h / AAA 1.5V x 2, AM4, IEC LR03, IEC6F22, NEDA 1604, 9V	9V Battery	9V Battery

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CURRENT CLAMP ADAPTORS

The RS PRO range of current clamp adapters is designed for use with digital multimeters.

SPECIFICATIONS / RANGES / MODEL	ICA31 123-3223	ICA39T 123-3224	3000A 161-1631
Feature and Benefits	• AC 400A capability • 1.9% basic D CA / A CA accuracy • Non-intrusive transducing • Up to 29mm diameter conductor • Shock Proof: 5ft drop • Coiled cable output plugs • Ergonomically designed jaw and trigger • AC-DC 1000A capability • Auto-zero key for DCA • Red LED - low battery indication • Green LED - power on indication • Insulated input jacks • Standard 9V battery • Safety Standard: CAT IV 600V / CAT III 1000V • Type of sensing: Hall effect	• AC 400A capability • 1.9% basic DCA/ACA accuracy • Non-intrusive transducing • Up to 29mm diameter conductor • Shock proof: 4ft drop • Coiled cable output plugs • Ergonomically designed jaw and trigger • Type of sensing: Current transformer sensing • Designed to meet IEC 61010-1, CAT II 600V / CAT III 300V	• Ergonomically designed • Head cable length 457mm • 3000A AC current measurement • Auto ranging • 3000 count large scal LCD with backlight • 7.5mm coil diameter for tight spaces • CAT IV 600V/CAT III 1000V safety standard
Adapter Type	AC	AC/DC	AC
Maximum AC Current	400A	1000A	3kA
Maximum DC Current	-	1000A	-
Best Accuracy	±1.9% + 0.5A	±1.9% + 7A	±3 %
Resolution	1 mV/A	1 mV/A	-
Maximum Conductor Size	29mm	51mm	-
Safety Category	Current, Voltage	CAT III 1000V	CAT III 1000V, CAT IV 600V
Connector Type	Test Lead	Test Lead	-
Battery Type	9V Alkaline	9V Alkaline	AAA x2
Battery Life	-	66h	-
Operating Temperature	0°C - 50°C	0°C - 50°C	5°C to 40°C
Safety Category Voltage	600V	1000V	1000V
Safety Category Level	CAT II	CAT III	CAT III, CAT IV
Supplied with	Battery (installed), coiled cable output plugs, carrying case and user manual	Carrying case and user manual	-

HANDHELD MULTIMETER ACCESSORIES

MULTIMETER TEST LEADS

PAIR OEM LANTERN FRONT PROBES	**199-9855**
PAIR OEM SPIKE FRONT PROBES	**199-9854**
PAIR THIN SPIKE PROBES	**199-9853**
PAIR LONG REACH PRODS	**199-9852**

FUSED TEST PROBE KIT 1000V CAT III

This high quality fused test kit contains leads and probes making an essential component to any electrician or engineers toolbox, allowing them to test voltage and energy circuits safely and effectively as well as the ability to use alongside digital multimeter.

Contents

• Red & black double insulated silicone test lead, with terminating ends including a straight 4mm and angled 4mm
• Red & black probe each fitted with a 1000V/500mA/50kA ceramic fuse and 4mm socket to the rear

MODULAR FUSED PROBE KIT 1000V CAT III	**199-9851**

CROCODILE CLIPS

• For use with fused test leads and probes
• Measurement category: 1000V CAT III / 600V CAT IV.
• Rating: EN61010

CROCODILE CLIPS	**125-3740**
CROCODILE CLIPS (LONG)	**125-3738**

TEST LEAD ACCESSORIES

A range of accessories with 4mm shrouded socket connections intended for use with the multimeter test lead set.

All accessories meet the requirements of EN61010 to their rated voltage.

EASY ACCESS BACK PROBE SET OF 4	**124-7401**
EASY ACCESS BACK PROBE SET, BLACK & RED	**124-7402**
EXTENDED BACK PROBE SET, BLACK & RED	**124-7403**
RIGHT ANGLED BACK PROBE LEAD SET	**124-7404**
BACK PROBE WITH CABLE PIERCER ADAPTER	**124-7405**
EXTRA SHARP LONG REACH PROD SET	**124-7406**
FUSED TEST PRODS	**125-3737**
SPRUNG HOOK GRABBERS	**125-3739**

AUTOMOTIVE TEST LEAD KIT

High-quality test lead kit designed for auto engineers.

Contents

• Red & black double insulated silicone test leads
• Red & black long reach probes
• Red & black fully insulated crocodile clip
• Red & black ultra thin back probes incorporating a cable piercing adapter
• Red & black extended back probes
• Red & black heavy-duty back probes

Specification

• Operating Temperature: -20°C - 70°C
• Current rating 10A

Note: Where applicable the kit component is marked with their relevant IEC 1010 (BS EN61010) ratings

AUTOMOTIVE TEST KIT	**124-7400**

MINI AC/DC CLAMP METER

Designed to verify the presence of load current, voltage and resistence, etc.

The small bodies and jaws fit perfectly in your hand and a large backlit display is easy to read.

Test lead mA range with high 1 mA resolution for HVAC and process control applications Data

Digital clamp tester for AC/DC current measurement

Providing wide measuring range from very small to large current

AUTO power off & data hold function

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MODEL	146-9096
Jaw Capacity Busbars	20mm
Clamp Size	19mm (Approx)
Absolute Maximum AC Current Measurement (A AC)	80A
Best AC Current Accuracy	±2.5%
Best Temperature Measurement Accuracy	±2°C

MODEL	146-9096
Battery Type	9V
Operating Temperature	5°C - +40°C
Safety Category	CAT III 600V
Dimensions	70 × 37 × 210mm
Weight	200g

MINI AC/DC CLAMP METER   146-9096

TRUE RMS FLEXIBLE CLAMP METER

The RS PRO Flexible Clamp Meter is a versatile tool that can be used across a range of applications and environments and is ideal for applications that require AC Current measurement.

The device has a built in datalogger that can measure current between 0.5A AC and 3000A AC. Measurements are easy to read thanks to the large backlit LCD screen, making the clamp meter ideal for use even in environments with little light or poor visibility.

MODEL	DT-388
Absolute Maximum AC Current Measurement	3kA AC
Connectivity	Bluetooth
Clamp Meter Type	AC Clamp Meter
True RMS	Yes
Functions Measured	AC Current

MODEL	DT-388
Display Type	LCD - Backlit
Safety Category	CAT III 1000V, CAT IV 600V
Safety Category Level	CAT III, CAT IV
Minimum Operating Temperature	-20°C
Power Source	Battery

RS-660 HANDHELD MULTIMETER   201-0209

BLUETOOTH CLAMP METER SERIES

This RS PRO clamp meter provides advanced power features, phase rotation, total harmonics distortion, which enables fully professional power measurement application with excellent performance.

Also has Bluetooth feature for streaming data on any mobile devices to provide easy data acquisition and analysis.

This RS PRO clamp meter provides advanced power features, phase rotation, total harmonics distortion, which enables fully professional power measurement application with excellent performance.

Also has Bluetooth feature for streaming data on any mobile devices to provide easy data acquisition and analysis.

SPECIFICATIONS / RANGES / MODEL	155B 162-4455	156B 162-4456	157B 162-4457	158B 162-4458
Absolute Maximum AC Voltage Measurement	1000V AC	1000V AC	1000V AC	1000V AC
Absolute Maximum AC Current Measurement	600A AC	600A AC	100A AC	1kA AC
Absolute Maximum DC Voltage Measurement	1000V DC	1000V DC	1000V DC	1000V DC
Absolute Maximum DC Current Measurement	-	600A DC	-	100A DC
Absolute Maximum Resistance Measurement	100kΩ	100kΩ	100kΩ	100kΩ
Best Resistance Measurement Accuracy	±1 + 5 Digits %	±1 + 5 Digits %	±1 + 5 Digits %	±1 + 5 Digit %
Best DC Voltage Accuracy	±0.7 + 2 Digit %	±0.7 + 2 Digit %	±0.7 + 2 Digit %	±0.7 + 2 Digit %
Best AC Voltage Accuracy	±1 + 5 Digit %	±1 + 5 Digit %	±1 + 5 Digit %	±1 + 5 Digit %
Best AC Current Accuracy	±1.5 + 5 Digit %	±1.5 + 5 Digit %	±1.5 + 5 Digit %	±1.5 + 5 Digit %
Clamp Meter Type	AC/DC Clamp Meter	AC/DC Clamp Meter	AC/DC Clamp Meter	AC/DC Clamp Meter
Jaw Capacity Busbars	45 × 10mm	45 × 10mm	62 × 12mm	62 × 12mm
Battery Life	50h	50h	50h	50h
Battery Type	Alkaline, 1.5V AAA	Alkaline, 1.5V AAA	Alkaline, 1.5V AAA	Alkaline, 1.5V AAA
Operating Temperature	0°C - 50+°C	0°C - 50+°C	0°C - 50°C	0°C - 50+°C
Safety Category Voltage	600V, 1000V	600V, 1000V	600V, 1000V	600V, 1000V
Safety Category	CAT III 1000V, CAT IV 600V	CAT III 1000V, CAT IV 600V	CAT III 1000V, CAT IV 600V	CAT III 1000V, CAT IV 600V
Safety Category Level	CAT III, CAT IV	CAT III, CAT IV	CAT III, CAT IV	CAT III, CAT IV
Dimensions	243 × 103 × 55mm	243 × 103 × 55mm	258 × 103 × 55mm	258 × 103 × 55mm
Weight	540g	540g	600g	600g
Functions Measured	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode, Frequency, Resistance	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode, Frequency, Resistance	AC Current, AC Voltage, Capacitance, Continuity, DC Current, DC Voltage, Diode, Frequency, Resistance	AC Current, AC Voltage, THD, Capacitance, Continuity, DC Current, DC Voltage, Diode, Frequency, Harmonics, Power, Power Factor, Resistance, Temperature,

ICM SERIES CLAMP METERS

Utilising Hall effect technology, our ICM series benefits from nickel steel alloy jaws for precise measurement of AC and DC current up to 600A.

COMMON INFORMATION

- 4000-count digital display
- Backlit, large-scale display
- Display hold
- Peak hold (10 Ms)
- Min/Max function

Supplied with:
Battery, test leads, carry case, user manual

Display Type:
LCD

SPECIFICATIONS / RANGES / MODEL	ICM136R 123-3222	ICM133R 123-3225	ICM139R 123-3227	ICM134 123-3228	ICM135R 123-3229
Absolute Maximum AC Voltage	600V AC	750V AC	750V AC	750V AC	600V AC
Absolute Maximum AC Current	600A AC	1kA AC	1kA AC	600A AC	600A AC
Absolute Maximum DC Voltage	600V DC	1000V DC	1000V DC	1000V DC	600V DC
Absolute Maximum DC Current	600A DC	-	1000A DC	4mA DC	-
AC Voltage Measurement Resolution	100mV	100mV	100mV	-	100mV
DC Voltage Measurement Resolution	100mV DC	100mV DC	100mV DC	-	100mV DC
Best Resistance Measurement Accuracy	±1% + 3 digits	±1% + 3 digits	±1% + 3 digits	±0.7% + 2 digits	±1% + 3 digits
Absolute Maximum Resistance	400Ω	400Ω	400Ω	40Ω	400Ω
Best DC Voltage Accuracy	±0.7% + 2 digits	±0.7% + 2 digits	±0.7% + 2 digits	±0.9% + 2 digits	±0.7% + 2 digits
Best AC Voltage Accuracy	±1% + 5 digits	±1% + 5 digits	±1% + 5 digits	±1% + 5 digits	±1% + 5 digits
Best DC Current Accuracy	±1.9% + 5 digits	±1.9% + 5 digits	±1.9% + 5 digits	±1% + 2 digits	±1.9% + 5 digits
Best AC Current Accuracy	±1.9% +5 digits	±1.9% +5 digits	±1.9% +5 digits	±1.9% +5 digits	±1.9% +5 digits
Safety Category Voltage	600 V, 1000 V	600 V, 1000 V	600 V, 1000 V	600 V, 1000 V	600 V
Clamp Meter Type	Current, Voltage	Current, Voltage	Current, Voltage	Current Tester, Temperature, Voltage Tester	Current, Voltage
Jaw Capacity Busbars	45mm	53mm	53mm	32mm	37mm
Battery Life	300 h	300 h	300 h	200 h	300 h
Battery Type	IEC 6F22, NEDA 1604, 9V	IEC 6F22, NEDA 1604, 9V	IEC 6F22, NEDA 1604, 9V	9V Alkaline	IEC 6F22, NEDA 1604, 9V
Operating Temperature	0 - +50	0 - +50	0 - +50	0 - +50	0 - +50
Functions Measured	AC current, AC voltage, Continuity, DC current, DC voltage, Diode test, Frequency, Resistance	AC current, AC voltage, Continuity, DC voltage, Diode test, Frequency, Resistance	AC current, AC Voltage, Continuity, DC current, DC voltage, Diode test, Frequency, Resistance	AC current, AC voltage, Capacitance, Continuity, DC current, DC voltage, Diode test, Resistance, Temperature	AC current, AC voltage, Continuity, DC voltage, Diode test, Frequency, Resistance
Maximum Conductor Size	35mm (dia.)	51mm (dia.)	51mm (dia.)	32mm (dia.)	34mm (dia.)
Dimensions	78 × 51 × 235mm	90 × 51 × 275mm	90 × 51 × 275mm	84 × 40 × 212mm	76 × 50 × 220mm
Weight	380g	420g	420g	390g	360g
Safety Category	CAT II 1000 V, CAT III 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V	CAT II 1000 V, CAT III 600 V	CAT III 600 V
Safety Category Level	CAT II, CAT III	CAT III, CAT IV	CAT III, CAT IV	CAT II, CAT III	CAT III

ICM SERIES CLAMP METERS

Great value, fully automatic intelligent testers that select the measuring function dependent on input terminal and current clamp conditions. No range selection is necessary. The clamp meter measures AC voltage, DC voltage, resistance and AC current.

COMMON INFORMATION

- Innovative open jaw technology
- Continuity bleeper
- Display hold function
- Auto power off
- Detachable leads to allow replacement or connection of fused test leads
- Continuity and Diode test

Supplied with:

Battery, test leads, carry case, user manual

Display Type:

LCD

RS CAL | UKAS - ILAC

SPECIFICATIONS / RANGES / MODEL	ICMA5 123-3232	ICMA7-4 123-3233	ICMA6 123-3234	ICMA1 123-3256	ICMA9 124-1957
Absolute Maximum AC Voltage	750V AC	600V AC	750V AC	-	600V AC
Absolute Maximum AC Current	200A AC	200A AC	600A AC	300A AC	400A AC
Absolute Maximum DC Voltage	1000V DC	600V DC	999.9V DC	-	600V DC
Absolute Maximum DC Current	-	-	-	300A DC	-
Absolute Maximum Resistance	2kΩ	2kΩ	2kΩ	-	2kΩ
Best Resistance Measurement Accuracy	±1% + 2 digits	±1% + 2 digits	±2% + 2 digits	-	±2% + 2 digits
Best DC Voltage Accuracy	±1% + 2 digits	-	±1% + 2 digits	-	±1 % + 4 digits
Best AC Voltage Accuracy	±1.5% + 3 digits	±1.5% + 3 digits	±1.5% + 3 digits	-	±1.5% + 3 digits
Best AC Current Accuracy	±3% +3 digits	±3% +3 digits	±2 %	±2.5% +5 digits	±1.8 % + 3 digits
Clamp Meter Type	Current, Voltage	Current, Voltage	Current, Voltage	Current, Voltage	Continuity, Current, Diode, Resistance, Voltage
Jaw Capacity Busbars	16mm (Dia.)	16mm (Dia.)	38mm (Dia.)	-	35mm
Battery Life	250h	250h	250h	20h	250h
Battery Type	IEC 6F22, NEDA 1604, 9V	IEC 6F22, NEDA 1604, 9V	IEC 6F22, NEDA 1604, 9V	A76, LR44	9V Alkaline (NEDA 1604 or IEC 6F22)
Operating Temperature	-20°C - +50°C	-20°C - +50°C	-20°C - +50°C	0°C - +50°C	0°C - +50°C
Safety Category Voltage	600 V, 1000 V	600V	600V, 1000V	600V	600V, 1000V
Safety Category	CAT III 1000 V, CAT IV 600V	CAT III 600V	CAT II 1000 V, CAT III 600 V	CAT III 600V	CAT II 1000V, CAT III 600V
Dimensions	66 × 46 × 198mm	84 × 31 × 175mm	83 × 48 × 200mm	60 × 31 × 147mm	66 × 46 × 198mm
Weight	280g	280g	375g	140g	260g
Functions Measured	AC current, AC voltage, Continuity, DC voltage, Diode test, Resistance	AC current, AC voltage, Continuity, DC voltage, Diode test, Resistance	AC current, AC voltage, Continuity, DC voltage, Diode test, Resistance	AC current, DC current, Inrush current, Low pass filter	AC current, AC voltage, DC voltage, Resistance

NON-CONTACT VOLTAGE INDICATOR CAT II 1000 V

The RS PRO non-contact volt tester, is a highly reliable detector perfect for testing live wires and conductors without coming into contact with them, preventing the risk of electric shock or injury.

- Ideal for 90 V - 1000 V AC
- Thin probe tip ideal for working with wall outlets and tight spaces
- Includes 2 × 1.5 V AAA batteries
- 6 hours of battery time

MODEL	192-3685
Maximum Voltage	1000V AC
Safety Category	CAT II 1000V
Battery Type	1.5 V AAA (Supplied)
Dimensions	152 × 4.5mm

NON-CONTACT AC VOLTAGE DETECTOR	192-3685

AC-15EXS NON CONTACT VOLTAGE DETECTOR

A highly reliable non-contact voltage detector perfect for testing live wires and conductors without coming into contact with them. This detector features a green LED light to indicate power is on and a red LED with beeper indicating a live voltage has been detected.

- High power rear flashlight
- Thinner probe tip ideal for working with wall outlets and tight spaces
- 2m drop-proof
- Low battery self-test & auto power off, ensuring a longer battery life
- Forward facing flashlight
- Pocket clip for easy storage

MODEL	178-1216
Maximum Voltage	100A AC
Safety Category	CAT IV 1000V
Battery Type	1.5V AAA
Dimensions	25 × 23 × 160mm

AC-15EXS NON CONTACT VOLTAGE DETECTOR	178-1216

RS-LA101 STUD/METAL/AC VOLTAGE FINDER

The RS PRO RS-LA101 has been designed to detect metal or wooden objects embedded within building and construction materials. This 3-in-1 stud tester uses electronic signals to locate the edges of studs, joists or live wires through drywall and other building materials, ideal when drilling is required to ensure that these areas remain undamaged and untampered with.

- Audible alarm and illumination on the unit to highlight detection of an object
- Powered and supplied with a 9V battery

MODEL	193-8684
Stud Detection Depth	1-1/2in
Operating Temperature	0°C - +40°C
Battery Type	9V (Supplied)
Dimensions	60 × 28 × 145mm

3 IN 1 STUD/METAL/AC VOLTAGE FINDER	193-8684

RS-9331 VOLTAGE INDICATOR AND CONTINUITY TESTER

This durable RS PRO RS-9331 is designed to deliver fast and accurate results when testing circuits. It combines all of the functionality and versatility needed for precision testing and reliable results for any two-pole voltage and continuity testing applications by using a double-pole probe and contact electrode probe. It is one of the most essential safety proving units in an electrician's tool kit, ensuring that it is safe for an electrician to start the electrical installation.

- IP64 protection rating

MODEL	193-8692
Test Current Rating	≤30 µA, ≤5µA
Output Voltage	1000V
Battery Type	1.5V AAA (Supplied)
Dimensions	73 × 34 × 240mm

ELECTRICAL TESTER	193-8692

CC421-G CURRENT & VOLTAGE CALIBRATOR

- Simulate electronic load (Max.30V, 20mA)
- Test LED brightness (0~20mA)
- Calibrate temperature of 11 types of thermocouples
- Handle function generator of sine wave, squre wave, triangular wave, arbitary wave, from 0.3 to 20KHz
- Pulse generator (3µS to 999.99ms)
- Measure: Current (DC mA), Voltage (DC mV, DC V) and temperature (°C,°F)
- Measure 4~20mA with 24V loop supply simultaneously
- Selectable 250Ω HART resistor to facilitate use with HART communication device
- Programmable cold junction compensation for temperature measurement

- Auto step and auto ramp for sourcing mA, V, and temperature
- Dot matrix LCD with backlight
- Rechargeable lithium battery (1600mAh)
- Data logging function for source and measurement

RS CAL

Size & Weight:
L: 214, W: 98.7, H: 56mm, 650g

Battery Type:
Li-Ion

MODEL	174-9556
Operating Temperature	0°C - +50°C
Voltage Range	0.005 - 20mV
Source Current Range	0.005 - 24mA
Best Accuracy	6%

CC421-G CURRENT & VOLTAGE CALIBRATOR	174-9556

RS133 & RS135 CALIBRATORS

- Source 4~20mA, 0~24mA with 1µA resolution (1 KΩ load, 24V loop supply), basic accuracy 0.025%
- Source 0~24.000V with 1mV resolution
- Source frequency 1~20000Hz square wave with programmable duty cycle (1~99%)
- Auto step and auto ramp for sourcing mA, V
- Easy fixed 25% up and down, or programmable percentage (1~99%) increase and decrease (mAV)
- Measure DC mA with loop power (24V output)
- Measure DC V
- Measure Temperature (°C,°F) of 11 types of thermocouples (K, J, E, T, R, S, N, L, U, B and C)

- Calibrator grade precision temperature measurement with 0.1°C & 0.1°F resolution
- Detection of thermocouples disconnection
- Source and Measure at the same time
- Warning for overload, output open (mA) or short (V)
- Short circuit protection for output
- Battery power indication (%) when turn on the calibrator

RS CAL

MODEL	RS133	RS135
Operating Temperature	0°C - +50°C	0°C - +50°C
Dimensions	214 × 98.7 × 56mm	214 × 98.7 × 56mm
Battery Type	Rechargeable Li-Ion	Rechargeable Li-Ion
Best Accuracy	6%	±0.025% ±5 digits

RS133 CURRENT AND VOLTAGE CALIBRATOR	174-9556
RS135 4-20 MA LOOP CALIBRATOR WITH THERMOMETER	174-9557

ET5300 EARTH & GROUND RESISTANCE TESTER 2KΩ

Electrical testers to be used on motors, generators, cables, or switch gear, the tester line is designed to be safe, simple to use and gimmick-free. A perfect solution for troubleshooting, commissioning, and preventative maintenance applications.

RS CAL   **UKAS - ILAC**

- Large dual display with backlight & Low Battery Indication
- Test hold function for easy operation
- Zero Automatic adjustment
- Sampling Rate: 2.5 times per second
- Includes 6 "AA" batteries, test leads and carrying case

MODEL	ET5300
Absolute Maximum Resistance Measurement	2kΩ
Best Accuracy	±2 %
Display Type	LED
Battery Type	AA
Power Source	Battery

MODEL	ET5300
Dimensions	200 × 92 × 50mm
Maximum Operating Temperature	40°C
Plug Type	Banana Plug
Includes	Battery x 6, Carrying Case, Iron Rods x 4, Manual, Sets Test Kits x 4

ET5300 | **144-5339**

MT-6600 ELECTRICAL TESTER

Electrical testers to be used on motors, generators, cables, or switch gear, the tester line is designed to be safe, simple to use and gimmick-free. A perfect solution for troubleshooting, commissioning, and preventative maintenance applications.

RS CAL   **UKAS - ILAC**

- 3.5" TFT colour LCD display with 320 × 240 pixels
- Variable RCD current mode for customized settings
- PASS/FAIL indication for RCD tests
- Select voltage measurement between L-N, L-PE and N-PE
- Support SD memory and USB and Bluetooth interface

MODEL	MT-6600
Maximum Continuity Resistance	2000Ω
Maximum Voltage Measurement	1000V
Operating Temperature	0°C - +45°C
Display Type	LCD

MODEL	MT-6600
Dimensions	242 × 105 × 145mm
Weight	1.6kg
Safety Category	CAT III 600V
Power Source	Battery
Battery Type	1.2V AA Rechargeable Ni-MH, 1.5V AA Alkaline

MT-6600 | **144-5338**

RS-9985 INSULATION TESTER WITH MULTIMETER

This meter measures AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Frequency (electrical & electronic), Duty Cycle, Diode Test,Insulation Test, and Continuity plus Thermocouple Temperature. It can store and recall data. It features a waterproof, rugged design for heavy duty use. Proper use and care of this meter will provide many years of reliable service.

MODEL	RS-9985
Maximum Insulation Resistance Measurement	4000MΩ
Tester Type	Insulation Resistance Tester
Display Type	LCD
Test Current	1mA
Minimum Operating Temperature	5°C - 40°C

MODEL	RS-9985
Dimensions	96.5 × 60.5 × 220mm
Weight	631g
Safety Category	CAT III, CAT IV
Power Source	Battery
Battery Type	1.5V AAA, 9V NEDA 1604

RS-9985 | **161-1630**

RS CT-240A DIGITAL CIRCUIT BREAKER FINDER

This RS PRO digital circuit breaker finder is ideal for use to quickly find and identify circuit breakers or fuses on any 110V 50Hz mains power supplies The device consists of a transmitter that is plugged into the mains power and a receiver that has a LED indicator and audible alarm when the correct circuit breaker is identified.

The circuit breaker finder is powered by a 9V battery (included) and offers an auto-power off function after 3 minutes of inactivity to help with better battery life of the unit

MODEL	
Probe Voltage	240V
Weight	120g
Dimensions	64 × 42 × 192mm
Maximum Operating Temperature	+40°C
Minimum Operating Temperature	0°C

DIGITAL CIRCUIT BREAKER FINDER	193-8690

IIT1500 INSULATION TESTER

RS CAL **UKAS - ILAC**

- 4000-count LCD display with analogue bargraph
- Test voltages: 50V, 100V, 250V, 500V & 1000V
- Polarisation Index (PI) and Dielectric Absorption Ratio (DAR) measurements for accurate measurement of insulation quality
- CAT IV 600V safety rating

- Fuse test
- 600 V AC/DC voltage measurement range
- Store/Recall memory & compare (Pass/Fail) function
- Includes remote test probe for fast testing

Size & Weight:
95 × 51.2 × 200mm: 630g

Power Source:
AA Alkaline battery

Supplied with:
Test-lead set, crocodile clips, remote test probe, rubber holster, tester hanging kit, 4 AA alkaline batteries and instruction manual

MODEL	IIT1500
Tester Type	Insulation multimeter
Test Voltage Range	50 - 1000V
Operating Temperature	0°C - +50°C
Battery Life	1100h
Safety Category	CAT IV 600V

IIT1500 INSULATION TESTER	123-3220

LCR1701 & LCR1703 LCR METERS

RS CAL

LCR1700 series hand held LCR smart meter feature innovative automatic selection technology. Their USB interface provides the convenience of external DC power supply and connection to a PC for data acquisition.

LCR1701 is supplied with alligator clips, shorting bar, battery and manual, while LCR1703 is supplied with alligator clips, shorting bar, magnetic hanging kit, 4 wires SMD test clip, DC power cable, USB cable, software CD, battery and manual.

COMMON INFORMATION

- 20000/2000-count dual digital display
- 46 segments bar graph display
- Auto selection of LCR testing
- Auto-ranging
- Auto backlit
- 0.2% basic accuracy capacitance and inductance
- Measurement parameters L.C.R.D.Q., EsR
- Testing frequency 100Hz, 120Hz, 1kHz, 10kHz, 100kHz selectable
- Parallel/serial test mode
- Sorting mode for QC

MODEL	LCR1701	LCR1703
Maximum Capacitance Measurement	20mF	
Maximum Resistance Measurement	200MΩ	
Maximum Inductance Measurement	20kH	
Operating Temperature	0°C - +50°C	
Battery Life	50h	
Bench/Handheld	Handheld	
Dimensions	95 × 207 × 52mm	

LCR1701 LCR Meter	123-3255
LCR1703 LCR Meter	123-3254

HANDHELD POWER MEASUREMENT

IPM3000 SERIES POWER QUALITY ANALYSER

RS CAL

Great value balanced 3-phase and single phase power quality tester with flexible probe and data logging functions. It is designed for measuring and diagnosing power problems in electrical installations and power circuits.

An optically isolated USB lead and analysis software enable readings to be displayed and/or downloaded for analysis on a PC or laptop.

IPM3005

IPM3600N

ADDITIONAL INFORMATION

Features and Benefits:

- Non-interrupted harmonic analysis (V and A) to the 50th order in % and magnitude
- Dual display with fast Peak Hold, Max and Min functions
- Selectable CT ratios from 1 to 250
- Data logging to internal memory for up to 8000 readings with programmable logging interval
- Selectable Auto power-off up to 30 minutes

Size:

IPM3600N 116 × 54 × 235mm

Areas of Application:

Electrical installations, power circuits

MODEL	IPM3005	IPM3600N
Maximum Frequency	50, 65Hz	60Hz
Maximum Voltage	600V	999.9V
Maximum Current Measurement	3000A	999.9A
Maximum Power Measurement	9999kW	999.9kW
Operating Temperature	-	0°C - +50°C
Interface Type	Optical data lead	USB
Display Type	LCD	LCD

CURSORS AND MEASUREMENT

	IPM3005	IPM3600N
Measurement Type	AC current, AC voltage, AC wattage, Harmonic, Total harmonic distortion	AC current, AC voltage, AC wattage, Frequency, Harmonic, Phase angle, Power energy, Power factor, Three phase frequency detection
Best Voltage Measurement Accuracy	±0.5 % ± 5 digits	±0.3 % ± 10 digits

IPM3005 POWER QUALITY ANALYSER	123-2200
IPM3600N POWER QUALITY ANALYSER	123-2244

IPM6000 SERIES POWER QUALITY ANALYSER

RS CAL

Great value, single phase and balanced 3 phase graphical power quality analyser. It incorporates data logging functions for analysis and diagnosis of power quality and power disturbance issues in electrical installations and power circuits.

Optically isolated USB connection lead and analysis software (supplied) enables readings to be displayed and recorded data to be downloaded, controlled and analysed on a PC or laptop computer.

COMMON INFORMATION

Maximum Power Measurement: 9999kW

Display Type: LCD

IPM6200

IPM6300

MODEL	IPM6200	IPM6300
Maximum Frequency	50, 60Hz	65Hz
Maximum Voltage	600V	600V
Maximum Current Measurement	1500A	3000A
Operating Temperature	-10°C - +50°C	-10°C - +50°C
Weight	640g	450g
Dimensions	62 × 35.6 × 210mm	80 × 43 × 130mm
Battery Type	1.5V	1.5V

CURSORS AND MEASUREMENT

	IPM6200	IPM6300
Measurement Type	AC current, AC voltage, AC wattage, Harmonic, Phase angle, Power factor, Total harmonic distortion	AC current, AC voltage, AC wattage, Crest Factor, Harmonic, Phase angle, Power factor, Total harmonic distortion
Best Voltage Measurement Accuracy	±0.5 % ± 5 digits	±0.5 % ± 5 digits

IPM6200 POWER QUALITY ANALYSER	123-2207
IPM6300 POWER QUALITY ANALYSER	123-2201

4-PIECE NETWORK TOOL KIT

Versatile tool kit ideal for checking cable continuity and efficient stripping and crimping of cables and wire where required. This high quality kit is also supplied in a handy wallet, ensuring the tools and accessories are protected when not in use.

Includes:

- LAN Cable Tester
- Low Impact Insertion Tool
- Modular Crimping Tool for 8P8C
- Universal Cable Stripper & Cutter

MODEL	194-5912
Cable Type	LAN, RJ45/STP, RJ45/UTP
Test Type	Continuity, Miswire, Open Circuit, Short Circuit
Battery Type	9V

ASSEMBLED CABLE TESTER	194-5912

RJ45/RJ11 CONTINUITY TESTER

Conveniently checks the continuity of screened/unscreened telephone and computer link cabling systems (up to 1000ft/0.3km).

The tester accommodates RJ11/RJ45, and DEC type plug interfaces. An immediate, simple, visual LED indication is provided of line continuity, by depressing a conveniently located push-button switch to initiate a test cycle.

Power Source: 9V battery

Tests for:
Open, shorted, crossed, reversed, transposed, split, non-pair wiring

Test Types:
Cable continuity, Miswire, Open circuit, Short circuit

MODEL	233-8919
Cable Types	Coaxial, STP, UTP
Port Interface	RJ11, RJ45 or DEC
I/O Current	5mA (max.)
Position Access Time	1 second

RJ45/RJ11 CONTINUITY TESTER	233-8919

TES-48 LAN CABLE TESTER

- Rugged, battery operated, handheld LAN tester to identify cable failures
- UTP, FTP & coax cabling tests
- Category 5 cabling
- End to end EIA/TIA 568 verification
- Distance to fault location
- Measures cabling length
- Easy to read LCD display
- Auto power off
- Identifies up to 8 different cables with cable identifiers (available seperately)
- Can be used for cables between 1m and 350m

Size & Weight:
150 × 72 × 35mm: Approx. 215g

Power Source:
6 pcs 1.5V size AAA battery

Supplied with
Instruction manual, Carry case, 1 x FTP Category 5 patch cable, 1 x RJ45F – RJ45F female coupler

MODEL	TES-48
Faults Status	Opens, Shorts, Reversed, Crossed, Split Pair.
Display	Large LCD display
Connector	RJ45 and BNC
Data Memory Capacity	99 sets
Operating Temperature	0°C - +40°C

TES-48 CABLE TESTER	462-9267
CABLE IDENTIFIER FOR USE WITH TES-48	425-0798

TES45 CABLE TESTER

Easy to use slim-line, handheld LAN cabling verifier with complete wire test mapping of unshielded twisted pair cables.

Dimensions:
170 × 52 × 38mm

Tests:
Crossed, Open, Reversed, Shorted, Split Wires

MODEL	TES45
Cable Type	UTP
Display Type	LCD
Maximum Cable Length	150m
Maximum Cables	4
Battery	9V
Operating Temperature	0°C - +50°C

TES45 CABLE TESTER	425-0754

RSHS800 SERIES HANDHELD DIGITAL OSCILLOSCOPE

RSHS800 Series handheld digital oscilloscopes provide oscilloscope, multimeter and recorder (including trends and waveform) functions all in one package. The choice of model is between 60MHz (123-6454), 100MHz (123-6455), 150MHz (123-6456) & 200MHz (123-6457) bandwidths. These instruments offer stable performance combined with high performance. They have the flexibility in use for both workbench and field applications.

RS CAL | UKAS - ILAC

### COMMON INFORMATION

Features and Benefits
- Dual-input oscilloscope, multimeter and recorder in one instrument
- Input voltage through BNC up to CAT ~ 300V and CAT ~ 150V
- Standard probe 10X CAT~ 400V
- 6000 dots display resolution
- Supports Scope TrendPlot, Meter TrendPlot, Scope Recorder
- Multiple language user interface

MODEL	RSHS806 123-6454	RSHS815 123-6456	RSHS820 123-6457
Number of Channels	2	2	2
Bandwidth	60MHz	150MHz	200MHz
Power Source	Battery, Mains	Battery, Mains	Battery, Mains
Display Type ; Size	Colour, TFT LCD; 5.7 inch	Colour, TFT LCD; 5.7 inch	Colour, TFT LCD 5.7 inch
Vertical Sensitivity	2mV/div - 100V/div	2mV/div - 100V/div	2mV/div - 100V/div
Time Base (Min → Max)	5ns/div - 50s/div	2.5ns/div - 50s/div	2.5ns/div -50s/div
Sample Rate Random	1 (Real Time) G samples/s, 50 (Equivalent) G samples/s	50 (Equivalent) G samples/s, 500 (Real Time) M samples/s	50 (Equivalent) G samples/s, 500 (Real Time) M samples/s
Rise Time	≤5.8ns	≤2.3ns	≤1.7ns
USB Interface	Yes	Yes	Yes
Record Length	2M points/ch	2M points/ch	32M points/ch
Dimensions ; Weight	259.5 × 163.2 × 53.3mm; 1.5kg	259.5 × 163.2 × 53.3mm; 1.5kg	259.5 × 163.2 × 53.3mm; 1.5kg
Safety Category	CAT II 1000V, CAT III 600V	CAT II 1000V, CAT III 600V	CAT II 1000V, CAT III 600V
Operating Temperature	0°C - 40°C	0°C - 40°C	0°C - 40°C

2205A-20 ULTRA-COMPACT USB OSCILLOSCOPE

For use as an advanced oscilloscope, spectrum analyzer, function generator, arbitrary waveform generator and protocol decoder out of the box. Mixed signal models also add a 16 channel logic analyzer. A complete electronics lab in one compact, low-cost, USB-powered unit. Delivering unbeatable value for money and ideal for education, hobby and field service use. In the lab the low cost allows one scope per person rather than having to share.

- 6 instruments in one
- Ultra-compact design
- Up to 100 MHz bandwidth
- Up to 128 MS buffer memory
- Decode 16 serial protocols as standard
- USB connected and powered
- Windows, Linux and Mac software
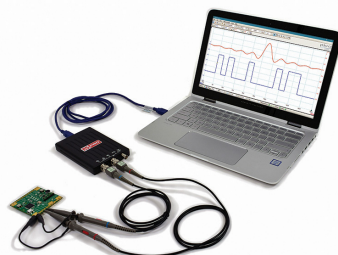
Advanced Digital Triggering

The 2205A-20 utilises full digital triggering using the actual digitised data. This eliminates trigger errors and allows the scope to trigger on the smallest signals.

Serial Decoding

The 2205A-20 comes with serial decoding as standard. Display the data in the graph, in a table, or in both at once:

Multiple Views

The free PicoScope software makes the best possible use of the display area. The waveform view is much bigger and higher resolution than a typical benchtop scope.

MODEL		2205A-20
Number of Channels		2
Bandwidth		20MHz
Time Base	Maximum	5000s/div
	Minimum	5ns/div
Vertical Sensitivity	Maximum	1mV/div
	Minimum	10mV/div
Rise Time		14ns
Display Type		Analogue
Dimensions		142 × 92 × 18.8mm
Operating Temperature		0°C - +50°C
Weight		200g

2205A-20	163-2719

BENCH OSCILLOSCOPES

RSMSO-2000E SERIES OF MIXED-SIGNAL OSCILLOSCOPES

This high-performance range offers dual analogue channels plus 16 digital channels or 4 analogue channels. This RS PRO series also offers bandwidth selections of 200MHz, 100MHz and 70Mhz plus an 8-inch 800×480 TFT LCD colour screen to clearly display measurement results.

COMMON INFORMATION

- 10M memory depth and VPO Waveform Display Technology
- 8" WVGA TFT LCD Colour screen
- Data Log Function
- Mask Test Function & Network Storage Function

Supplied with:

Quick start guide, User manual CD x 1, Power cord x 1, Switchable passive probe (varying per model).

Display Type:

LCD

SPECIFICATIONS / RANGES / MODEL	2102E 180-4786	2104E 180-4787	2202E 180-4788	2204E 180-4789	2102EA 180-4790	2104EA 180-4791	2202EA 180-4792	2204EA 180-4793
Number of Channels	2	4	2	4	2	4	2	4
Bandwidth	100MHz		200MHz		100MHz		200MHz	
Power Type	Mains		Mains		Mains		Mains	
Display Type	TFT LCD WVGA		TFT LCD WVGA		TFT LCD WVGA		TFT LCD WVGA	
Vertical Sensitivity (Min/Max)	1mV/div to 10V/div		1mV/div to 10V/div		1mV/div to 10V/div		1mV/div to 10V/div	
Time Base (Min/Max)	1ns/div to 100s/div		1ns/div to 100s/div		1ns/div to 100s/div		1ns/div to 100s/div	
Screen Size	8in		8in		8in		8in	
Sample Rate Random	1 Gsps		1 Gsps		1 Gsps, 200 (AWG) Msps		1 Gsps, 200 (AWG) Msps	
USB Interface	Yes		Yes		Yes		Yes	
Record Length (per channel)	10M pts (max)		10M pts (max)		10M pts (max)		10M pts (max)	
Vertical Resolution	8 bits : 1mV ~ 10V/div		8 bits : 1mV ~ 10V/div		8 bits		8 bits	
Dimenstions (WxHxD)	384×208×127.3mm		384×208×127.3mm		384×208×127.3mm		384×208×127.3mm	
Safety Category	CAT I 300 V, CAT II 300 V		CAT I 300 V, CAT II 300 V		CAT I 300 V, CAT II 300 V		CAT I 300 V, CAT II 300 V	
Operating Temperature	0°C - +50°C		0°C - +50°C		0°C - +50°C		0°C - +50°C	
Weight	2.8kg		2.8kg		2.8kg		2.8kg	
Rise Time	3.5ns		1.75ns		3.5ns		1.75ns	

RSDM-2000EG SERIES MIXED DOMAIN DIGITAL OSCILLOSCOPE

A range of highly accurate digital storage oscilloscopes with a multitude of features essential for testing and measuring the bandwidth and waveform of electronic signals. The series offers oscilloscopes in 100 and 200MHz, with 2 or 4 channels available to accommodate a range of applications.

Models with two analog channels provide 1GSa/s real-time sampling rate per channel; models with four analog channels provide 1GSa/s maximum real-time sampling rate.

SPECIFICATIONS / RANGES / MODEL	2102EX 180-4801	2104EX 180-4802	2202EX 180-4803	2204EX 180-4804	2102EG 180-4797	2104EG 180-4798	2202EG 180-4799	2204EG 180-4800
Number of Channels	2	4	2	4	2	4	2	4
Bandwidth	100MHz		200MHz		100MHz		200MHz	
Power Type	Mains		Mains		Mains		Mains	
Display Type	TFT LCD, WVGA		TFT LCD, WVGA		TFT LCD, WVGA		TFT LCD, WVGA	
Vertical Sensitivity (Min/Max)	1mV/div - 10V/div		1mV/div - 10V/div		1mV/div - 10V/div		1mV/div - 10V/div	
Time Base (Min/Max)	1ns/div (min)		1ns/div (min)		1ns/div (min)		1ns/div (min)	
Screen Size	8in		8in		8in		8in	
Sample Rate Random	1 Gsps		1 Gsps		1 Gsps		1 Gsps	
Interface	CAN, IIC, LIN, RJ45, SPI, UART, USB		CAN, IIC, LIN, RJ45, SPI, UART, USB		CAN, IIC, LIN, RJ45, SPI, UART, USB		CAN, IIC, LIN, RJ45, SPI, UART, USB	
Vertical Resolution	8 bit		8 bit		8 bit		8 bit	
Safety Category	CAT I 300V		CAT I 300V		CAT I 300V		CAT I 300V	
Rise Time	3.5ns		1.75ns		3.5ns		1.75ns	

COMMON INFORMATION

Features and benefits:

Equipped with DMM and Power Supply, offering a truly unique MDO

BENCH OSCILLOSCOPES

IDS2000E Series Visual Persistence Oscilloscopes

IDS2000E Series digital storage oscilloscopes offer features normally only available on much higher-priced scopes or as expensive add-ons.

The models are equipped with Visual Persistence Oscilloscope (VPO) technology. This uses a high-density IC for hardware acceleration to transfer all the acquired data into the displayed waveform image.

IDS2000E Series can clearly display complex and random waveforms using its 8 inch 800 × 400 16:9 TFT LCD display and maximum 1 mV/div vertical range.

COMMON INFORMATION

Features and Benefits

- 10M depth of memory
- VPO waveform display technology
- Waveform update rate 120,000 wfm/sec
- 8 inch 800 × 480 TFT LCD display
- Maximum 1Mpts FFT
- Digital filter function
- Segmental waveform and waveform search functions
- I²C/SPI/UART/CAN/LIN serial bus trigger and decoding function
- Datalog function for waveform observation over long periods
- Network storage function

Note

- PC software (OpenWave software) and Driver (USB driver, LabView driver) freely downloadable

SPECIFICATIONS / RANGES / MODEL	IDS2072E 123-3551	IDS2074E 124-0233	IDS2102E 124-1955	IDS2104E 123-3552	IDS2202E 124-1956	IDS2204E 123-3553
Number of Channels	2	4	2	4	2	4
Bandwidth	70MHz		100MHz		200MHz	
Oscilloscope Type	Digital Storage		Digital Storage		Digital Storage	
Power Source	Mains		Mains		Mains	
Display Type	TFT LCD		TFT LCD		TFT LCD	
Screen Size	8in		8in		8in	
Vertical Sensitivity — Minimum / Maximum	1mV/div 10V/div		1mV/div 10V/div		1mV/div 10V/div	
Time Base — Minimum / Maximum	1 ns/div, 100 (ROLL) ms/div 100s/div		1 ns/div, 100 (ROLL) ms/div 100s/div		1 ns/div, 100 (ROLL) ms/div 100s/div	
Sample Rate Random	100s/div		1G samples/s		1G samples/s	
Record Length	10M points		1M points/ch	10M points	1M points/ch	10M points
Vertical Resolution	8 bit		8 bit		8 bit	
Dimensions	384 × 127.3 × 208mm		384 × 127.3 × 208mm		384 × 127.3 × 208mm	
Safety Category	CAT I 300 Vrms, CAT II 300 Vrms	CAT II 300 Vrms	CAT I 300 Vrms, CAT II 300 Vrms		CAT I 300 Vrms, CAT II 300 Vrms	
Safety Category Level	CAT I, CAT II	CAT II	CAT I, CAT II		CAT I, CAT II	
Safety Category Voltage	300V		300V		300V	
Operating Temperature	0°C - +50°C		0°C - +50°C		0°C - +50°C	
Weight	2.8kg		2.8kg		2.8kg	
Rise Time	5ns		3.5ns		1.75ns	
Supplied with	Switchable passive probe (1 per channel), quick start guide, user manual on CD, power cord					

IDS6000 SERIES DIGITAL STORAGE OSCILLOSCOPES

Two digital storage oscilloscopes in the IDS6000 series offer 50 and 100Hz bandwidth options.

IDS6052U 50MHz is designed to optimise balance of performance between memory length and sampling speed. Features include user-friendly menu tree operations, compact size, ergonomic design, USB host for PC connectivity and USB device port support.

IDS6102AU 100MHz provides complete remote control or data capture over a USB interface. It supports PictBridge which, connected to a compatible printer with a USB cable. Its MemoryPrime technology allows 2Mpts of waveform data.

RS CAL | **UKAS - ILAC**

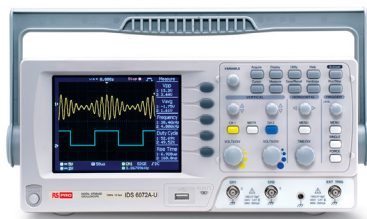### COMMON INFORMATION

Features and Benefits
- 5.7 inch TFT colour LCD display
- Up to 27 Auto measurements
- Data logger
- Dimensions 310 × 142 × 140mm
- Weight approximately 2.5kg

Supplied with
- User manual, power cord, 70MHz switchable passive probe (1 per channel)

MODEL		IPM6200	123-3538	IPM6300	123-3539
Bandwidth		50MHz		100MHz	
Time Base	Minimum Maximum	1ns/div, 50 (ROLL) ms/div 50s/div		1 ns/div, 50 (ROLL) ms/div 50s/div	
Vertical Sensitivity	Minimum Maximum	2mV/div 10V/div		2mV/div 10V/div	
Rise Time		<7ns		<3.5ns	
Operating Temperature		0°C - +50°C		0°C - +50°C	
Safety Category		CAT II 300V AC/DC		CAT II 300V AC/DC	
Safety Category Level		CAT II		CAT II	
Sample Rate Random		25 (Equivalent Time Sampling) G samples/s, 250 (Real Time Sampling) M samples/s		25 (Equivalent Time Sampling) G samples/s, 250 (Real Time Sampling) M samples/s	
Record Length		4k points/ch		4k points/ch	
USB Interface		Yes		Yes	
Vertical Resolution		8 bit		8 bit	
Power Source		Mains		Mains	

IDS6000A-U SERIES DIGITAL STORAGE OSCILLOSCOPES

RS CAL | **UKAS - ILAC**

COMMON INFORMATION

Features and Benefits
- Up to 27 Automatic measurements
- Go/NoGo function
- Data logger

Supplied with
- User manual, power cord, 100MHz switchable passive probe (1/channel)

Provides complete remote control or data capture over a USB interface.

MemoryPrime technology allows 2 Mpts of waveform data. Full advantage of this capacity can be taken using Horizontal Page Skip and Set Time functionalities. Auto measurement is enhanced with a built-in Autoset function and Cursor Gating feature.

MODEL	IDS6072AU	124-0229	IDS6152AU	124-0230
Number of Channels	2		2	
Bandwidth	70MHz		150MHz	
Oscilloscope Type	Digital Storage		Digital Storage	
Power Source	Mains		Mains	
Display Type	5.7in, TFT LCD		5.7in, TFT LCD	
Vertical Sensitivity	2mV/div - 10V/div		2mV/div - 10V/div	
Time Base	1ns/div - 50s/div		1ns/div - 50s/div	
Sample Rate Random	1 (Real Time) G samples/s, 25 (Equivalent) G samples/s		1 (Real Time) G samples/s, 25 (Equivalent) G samples/s	
USB Interface	Yes		Yes	
Record Length	2M points/ch		2M points/ch	
Vertical Resolution	8 bit		8 bit	
Dimensions; Weight	310 × 140 × 142mm: 2.5kg		310 × 140 × 142mm: 2.5kg	
Safety Category	CAT II 300V AC/DC		CAT II 300V AC/DC	
Safety Category Level	CAT II		CAT II	

PASSIVE OSCILLOSCOPE PROBES, 5MM Ø
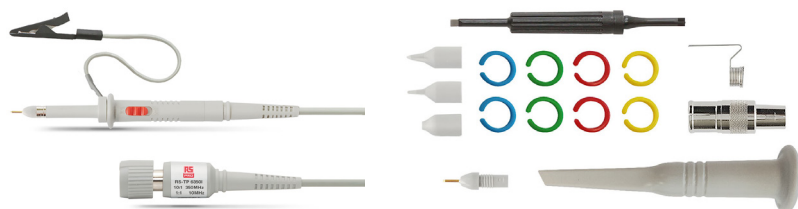
Ergonomically designed passive type probes suitable for use with RS PRO oscilloscopes as well as all major brands. These probes feature bandwidths of 10MHz and 500MHz, allowing you to work with high and low frequencies.

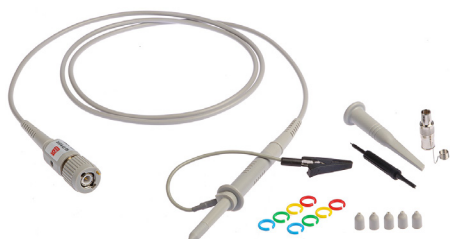|	
OSCILLOSCOPE PROBE, 5MM DIAMETER, 100MHZ 10:1	179-9560
OSCILLOSCOPE PROBE, 5MM DIAMETER, 150MHZ 10:1	179-9559
OSCILLOSCOPE PROBE, 5MM DIAMETER, 350MHZ 10:1	179-9558
OSCILLOSCOPE PROBE, 5MM DIAMETER, 350MHZ 1:1 AND 10:1 SWITCHABLE	179-9556
OSCILLOSCOPE PROBE, 5MM DIAMETER, 500MHZ 10:1	179-9557

PASSIVE OSCILLOSCOPE PROBES, 2.5MM Ø

Ergonomically designed passive type probes suitable for use with RS PRO oscilloscopes as well as all major brands. This probe offers a bandwidth of 100MHz to 200MHz and has a fixed attenuation of 10:1 making them ideal for general purpose probing.

RS-TP 35100 OSCILLOSCOPE PROBE, 2.5MM DIAMETER, 100MHZ 10:1	8-18PF	179-9561
RS-TP 35101 OSCILLOSCOPE PROBE, 2.5MM DIAMETER, 100MHZ 10:1	15-25PF	179-9562
RS-TP 35200 OSCILLOSCOPE PROBE, 2.5MM DIAMETER, 200MHZ 10:1	8-18PF	179-9563
RS-TP 35201 OSCILLOSCOPE PROBE, 2.5MM DIAMETER, 200MHZ 10:1	15-25PF	179-9564

RS-SI 9001 & 9010A ACTIVE DIFFERENTIAL PROBES

The RS-SI 9001 allows safe and accurate measurements between two voltage signals that are referenced to each other and has a switchable attenuation of 10:1 and 100:1, 25 MHz bandwidth and ±700 V maximum differential. The probe can be operated either by 4×AA batteries or by the supplied USB power lead.

RS-SI 9001 ACTIVE DIFFERENTIAL PROBE, 25	179-9565
RS-SI 9010A ACTIVE DIFFERENTIAL PROBE, 5	179-9566

BENCH OSCILLOSCOPE ACCESSORIES

DIFFERENTIAL PROBES

OSCILLOSCOPE PROBE 50MHZ, PROBE TYPE: DIFFERENTIAL, HIGH VOLTAGE 800V	123-6478
OSCILLOSCOPE PROBE 70MHZ, PROBE TYPE: DIFFERENTIAL, HIGH VOLTAGE 1.5KV	123-6479

OSCILLOSCOPE PROBES - STANDARD

OSCILLOSCOPE PROBE 25MHZ, PROBE TYPE: PASSIVE 400V	146-6612
OSCILLOSCOPE PROBE 150MHZ, PROBE TYPE: PASSIVE 600V	146-6613
OSCILLOSCOPE PROBE 15 MHZ, 150 MHZ, PROBE TYPE: PASSIVE 600V	146-6614
OSCILLOSCOPE PROBE 15 MHZ, 150 MHZ, PROBE TYPE: PASSIVE 600V	146-6615
OSCILLOSCOPE PROBE 25 MHZ, 250 MHZ, PROBE TYPE: PASSIVE 600V	146-6616
OSCILLOSCOPE PROBE 25 MHZ, 250 MHZ, PROBE TYPE: PASSIVE 600V	146-6617
OSCILLOSCOPE PROBE 300MHZ, PROBE TYPE: PASSIVE 600V	146-6618
OSCILLOSCOPE PROBE 300MHZ, PROBE TYPE: PASSIVE 1.5KV	146-6622
OSCILLOSCOPE PROBE 300MHZ, PROBE TYPE: PASSIVE 2.5KV	146-6623
OSCILLOSCOPE PROBE, PROBE TYPE: PASSIVE	146-6624
OSCILLOSCOPE PROBE, PROBE TYPE: PC OSCILLOSCOPE PROBE KIT	146-6626

OSCILLOSCOPE PROBES - MINIATURE
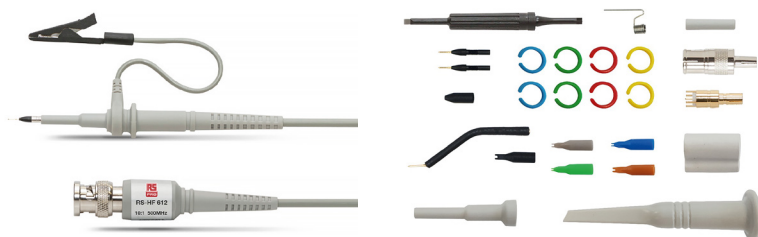
OSCILLOSCOPE PROBE 500MHZ, PROBE TYPE: MINIATURE	146-6619
OSCILLOSCOPE PROBE 500MHZ, PROBE TYPE: MINIATURE	146-6620

BENCH OSCILLOSCOPE ACCESSORIES

ICA3000 FLEXIBLE 3000A CURRENT PROBE

The ICA3000 is a great value, flexible probe. It differs from normal clampmeters because it can pass through obstacles at will and wind many conducting wires simultaneously.

Battery:
2 × AA 1.5V Alkaline (2000mAHrs)

2 Selectable AC Current Ranges:
300A and 3000A

2 Output Sensitivities:
300mV/A and 1V/A

Operating Environment:
-10 - 50°C, 15% to 85% RH

Dimensions:
130 × 80 × 43mm

Weight:
430g

ICA3000 CURRENT PROBE	123-2199

OSCILLOSCOPE MOUNTING & HOLDING DEVICE

GRA-411 rack aapter panel for IDS3000 series VPO oscilloscopes.

GRA-411 MOUNTING & HOLDING DEVICE	122-5406

RSDPB4080 DC-50MHZ HIGH VOLTAGE DIFFERENTIAL PROBE

- Bandwidth DC-50MHz
- Max differential test voltage (DC + Peak AC) 10 X: 80V, 100 X: 800V
- Max input common mode voltage (voltage-to-earth Vrms) 800Vrms
- Input impedance single-ended to ground 27MΩ, two inputs 54MΩ
- Input capacitance single-ended to ground <2.3 pF, two inputs <1.2pF
- CMRR: DC >80dB; 100kHz >60dB; 1MHz >50dB
- Propagation delay 18ns ± 1ns
- Power supply 9V DC power
- Probe body dimensions 165 × 69 × 26mm
- Probe body weight approximately 500g

RSDPB4080 HIGH VOLTAGE DIFFERENTIAL PROBE	123-6478

SOFT CARRYING CASES

Carry cases for use with selected RS PRO oscilloscopes, digital storage oscilloscopes and spectrum analysers.

- 122-5407 - For use with IDS200A and IDS3000 series
- 123-6470 - For use with RSDS1000CFL and RSSA3000X series

122-5407

123-6470

GSC008 SOFT CARRY CASE	122-5407
BAGSCC SOFT CARRY CASE	123-6470

RSDPB5150 HIGH VOLTAGE DIFFERENTIAL PROBE

- Bandwidth DC-70MHz
- Max differential test voltage 50 X: 150V, 500 X: 1500V
- Max input common mode voltage 600V CATIII, 1000V CATII
- Overload indicator (red light)
- Overload alarm
- Automatic save
- Offset setting function
- Terminate load 1MΩ
- Power supply USB 5V/1A adapter
- Probe body dimensions 195 × 65 × 28mm
- Probe body weight approximately 188g

RSDPB5150 HIGH VOLTAGE DIFFERENTIAL PROBE	123-6479

RSDM3045X DIGITAL MULTIMETER, 4 DIGIT READING RESOLUTION

A highly reliable digital multimeter designed with 4 digits readings resolution and dual-display, ideal for high-precision, multifunction and automatic measurement.

COMMON INFORMATION

Features and Benefits

- Up to 150 rdgs/s measurement speed
- True-RMS AC Voltage and AC Current measuring
- 1Gb Nand flash size, mass storage configuration and data files
- Built-in cold terminal compensation for thermocouple

MODEL	RSDM3045X
DC Voltage	600 mV - 1000V
DC Current	600 µA - 10A
AC Voltage	True-RMS, 600 mV - 750V
AC Current	True-RMS,60 mA - 10A
2/4-Wire Resistance	600 Ω - 100MΩ
Capacitance	2 nF - 10000 µF
Continuity Test	Range is fixed at 2kΩ
Diode Test	Adjustable range is 0-4V
Frequency Measurement	20 Hz - 500KHz
Period Measurement	2 µs - 0.05s
Temperature	Support for TC and RTD sensor
Dimensions	282 × 260 × 105mm
Weight	3.8kg
Safety Category	CAT I 1000V CAT II 600V

RSDM3045X DIGITAL MULTIMETER	188-2476

RSDM-9060 AND RSDM-9061, 6 DIGIT DUAL MEASUREMENT MULTIMETERS

RSDM-9060 and RSDM-9061 are highly accurate and professional multimeters ideal for the measurement of circuit parameters such as voltage, current and resistance. There sturdy design ensures a durable and reliable meter that is ideal for a permanent fixture on any workbench or system rack.
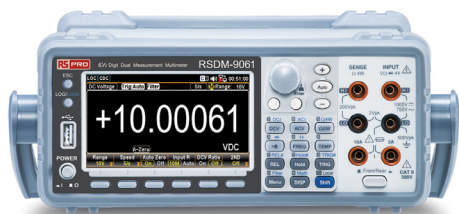
COMMON INFORMATION

Features and Benefits

- 6 Digit Display: 1,200,000 Counts
- 12 Measurement Functions: DCV, ACV, DCI, ACI, 2-wire and 4-wire Resistance, Frequency, Period, Diode, Continuity, Temperature and Capacitance
- 6 mathematical functions (dB/dBm/Compare/ MX+B/Percent and 1/X)
- USB device/host, RS-232C, LAN, digital I/O and optional GPIB
- Clear and user friendly 4.3" TFT Graphic LCD display

Dimensions
267 × 305 × 107mm; 3.5kg

MODEL	RSDM-9060	RSDM-9061
DCV Basic Accuracy	0.0075%	0.0035%
Best DC Current Accuracy	±0.2 of Reading + 0.02 of Range%	±0.2 of Reading + 0.02 of Range%
Best AC Current Accuracy	±1 of Reading + 0.04 of Range%	±1 of Reading + 0.04 of Range%
Best DC Voltage Accuracy	±0.009 of Reading + 0.006 of Range%	±0.009 of Reading + 0.006 of Range%
Best AC Voltage Accuracy	±4 of Reading + 0.5 of Range%	±4 of Reading + 0.5 of Range%
Maximum Frequency	300kHz	300kHz
DC Voltage Measurement Resolution	0.1µV DC	0.1µV DC
AC Voltage Measurement Resolution	0.1µV AC	0.1µV AC
Capacitance Measurement Resolution	0.001nF	0.001nF
Temperature Measurement Resolution	0.002 (Type E, Type J, Type T & Type K)°C, 0.003 (Type N)°C, 0.01 (Type R, Type S & Type B)°C	0.002 (Type E, Type J, Type T & Type K)°C, 0.003 (Type N)°C, 0.01 (Type R, Type S & Type B)°C

RSDM-9061	191-9720
RSDM-9060	191-9721

IDM8351 DUAL MEASUREMENT MULTIMETER

Multimeter IDM8351 offers unprecedented functionality plus the fastest measurement speed in its class. The instrument's measurement functions include AC/DC voltage, AC/DC current, AC+DC voltage/current, two-wired and four-wired resistance, continuity beeper, diode test, capacitance, frequency and temperature.

RS CAL   **UKAS - ILAC**

- 120 000-count, VFD display
- Dual measurement, dual display
- Basic precision of DC voltage 0.012%
- Selectable measurement speeds (slow, medium, fast)
- True RMS (AC, AC+DC) measurements
- 12 different measurement functions
- Many auxiliary functions
- Digital I/O (provides dual mode)
- RS-232C and USB device interface as standard

Size & Weight:
265 × 107 × 302mm: 2.9kg

Safety Category:
CAT II 600V

Supplied with:
User manual, driver and software on CD, safety instruction sheet, test lead, power cord

Multimeter Type:
Bench

Max AC Current Measurement	10A AC
Max DC Current Measurement	10A AC
Max AC Voltage Measurement	750V AC
Max DC Voltage Measurement	1000V AC
Max Resistance Measurement	100MΩ
Max Capacitance Measurement	100MΩ
Max Temperature Measurement	+300°C
Max Frequency	10kHz

IDM-8351 DUAL MEASUREMENT MULTIMETER   `123-3537`

RSDM3055/RSDM3055A DIGITAL MULTIMETER

The RSDM3055 is a 5-digit multimeter with a dual-readout display. RSDM3055A is of similar specification but, in addition, includes a USB to GPIB adapter.

These models come equipped with a 4.3 inch TFT LCD screen. They feature many powerful math and statistical functions and are designed for users who need high performance together with multiple functions and automatic measurements.

COMMON INFORMATION

Features and Benefits
- Real 5 digit reading resolution
- Up to 150rdgs/s measurement
- True-RMS AC voltage and AC current measuring
- 1GB nand flash size, mass storage configuration files and data files
- Built-in cold terminal compensation for thermocouple temperature measurements
- USB Device, USB Host, LAN (plus
- GPIB with RSDM3055A only)
- Supports remote control via commands and is compatible with commands of mainstream multimeters
- Includes EasySDM computer software100/60MHz bandwidths

MODEL	RSDM3055	RSDM3055A
Max AC Voltage Measurement	750V AC	750V AC
Max AC Current Measurement	10A AC	10A AC
Max DC Voltage Measurement	1000V DC	1000V DC
Max DC Current Measurement	10A DC	10A DC
Max Resistance Measurement	100MΩ	100MΩ
Max Capacitance Measurement	10mF	10mF
Max Frequency	1MHz	1MHz
Safety Category Voltage	600V, 1000V	600V, 1000V
Display Type	LCD	LCD
Dimensions; weight	282 × 260 × 105mm; 3.3kg	282 × 260 × 105mm; 3.3kg
General Purpose Interface Bus (GPIB) Adaptor	Yes	Yes

RSDM3055 DIGITAL MULTIMETER   `123-6465`

RSDM3055A DIGITAL MULTIMETER   `123-6466`

RSFG-2000 SERIES FUNCTION GENERATORS

The RSFG-2000 series are a selection of robust and professional function generators offering a range of outputs including sine, square and triangle.

Whatever your needs the RSFG-2000 series has you covered, with devices ranging from basic single channel AFG with pulse generator models to more technical and advanced five-channel models with many offering various modulation methods such as AM/FM/PM/FSK/PWM, Sweep, Burst, Trigger, 150 MHz Frequency Counter.

Each model of the RSFG-2000 series features a built-in pulse generator with an output frequency that reaches 25 MHz. Users can set pulse width, duty cycle, rise edge time, and fall edge time to support trigger signal. Furthermore, each model also features a clear and user-friendly interface with a 4.3 inch TFT colour display that can be easily navigated by users of any level of expertise.

SPECIFICATIONS / RANGES / MODEL	RSFG-2110 191-9722	RSFG-2120MA 191-9723	RSFG-2160MR 191-9724	RSFG-2230 191-9725	RSFG-2260M 191-9726	RSFG-2260MRA 191-9727
Channels	10MHz Single Channel	20MHz Single Channel	60MHz Single Channel	30MHz Dual Channel	60MHz Dual Channel	60MHz Dual Channel
Features	Pulse Generator	Pulse Generator, Modulation, Power Amplifier	Pulse Generator, Modulation, 320MHz RF Signal Generator	Pulse Generator, Modulation	Pulse Generator, Modulation	Pulse Generator, Modulation, 320MHz RF Signal Generator, Power Amplifier
Operating temperature Range	0°C to +40°C					
Maximum Frequency Range Sinewave	25MHz					
PC Software	Arbitrary Waveform Editing Software (Free Download)					
TTL Output Level	4V Pk-Pk					
Input Impedance	10 kO					
Interface Type	LAN, USB					
Digital Amplitude and Offset	Yes					
Internal Linear and Log Sweep	Yes					
FM Modulation	Yes					
Time Base Accuracy	±20ppm					
Attenuation	20dB					
Dimensions	266 × 293 × 107mm					
Weight	2.5kg					

DESKTOP SPECTRUM ANALYSERS

The RSSA-9300B analyser is a highly reliable and efficient device used for analysing the frequency spectrum of RF, radio frequency and audio signals. This lightweight yet durable all-purpose analyser provides accurate measurements and is ideal for general signal monitoring requirements. This budget-friendly unit doesn't compromise on quality and is a versatile and essential piece of equipment that covers your testing needs, regardless of application.

This model (RSSA-9300B TG) is also available with a tracking generator feature, which provides a more flexible and highly valuable spectrum analyser, as it allows the device to be used as a scalar network analyser by making circuit response measurements.
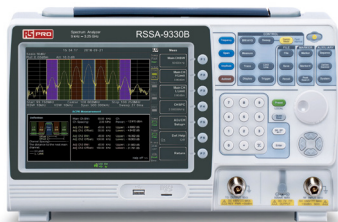
COMMON INFORMATION

Features and Benefits
- Built-in reamplifier, 50dB Attenuator, and Sequence Function
- Sensitivity: 149dBm/Hz
- RBW: 1 Hz - 1 MHz
- Built-in AM/FM Demodulation & Analysis
- Built-in Spectrogram, Topographic and Dual-View Display Modes

Battery Type
Li-ion

Remote Control Software
SpectrumShot

MODEL	RSSA-9300B	RSSA-9300B TG
Bandwith	9kHz - 3GHz	9kHz -3GHz
Wave Traces	Average, Average (EMI), Blank, Clear & Write, Max Hold, Min Hold, Quasi-Peak (EMI), View	Average, Average (EMI), Blank, Clear & Write, Max Hold, Min Hold, Quasi-Peak (EMI), View
Sweep Modes	Continuous, Single	Continuous, Single
Setting Modes	Zero Span + Time Domain	Zero Span + Time Domain
Frequency Range	9kHz ~ 3GHz	100kHz ~ 3GHz
Frequency Stability	0.025ppm	0.025ppm
Markers	Frequency	Frequency
RF Input	N-Type Female	N-Type Female
Interface Type	GPIB, LAN, MicroSD, RS232, USB	GPIB, LAN, MicroSD, RS232, USB
Operating Temperature Range	+5°C - +45°C	+5°C - +45°C
Dimensions	350 × 100 × 210mm	350 × 100 × 210mm

RSSA-9300B	180-4795
RSSA-9300B TG	180-4796

FUNCTION / ARBITRARY WAVEFORM GENERATORS

The RSDG1032X & RSDG1062X function/arbitrary waveform generators offers a range of excellent features including a 150 MSa/s sampling rate and 14-bit vertical resolution. The proprietary EasyPulse & TrueArb technique helps to solve the weaknesses inherent in traditional DDS generators when generating pulse and arbitrary waveforms, and the special square generator is capable of generating square waveforms up to 30 MHz in frequency with low jitter.

The RSDG6022X function/arbitrary waveform generator offers a range of excellent features including a maximum bandwidth of up to 200 MHz maximum bandwidth, 2.4GSa/s sampling rate and 16-bit vertical resolution. Unlike traditional DDS generators that can produce weak results when generating arbitrary, square and pulse waveforms, the RSDG6022X also includes True Arb & EasyPulse technology to produce far superior results.

COMMON INFORMATION

Features and Benefits
- 4.3" TFT-LCD display
- Sweep and Burst functions
- Harmonics Generator function
- Waveform Combining function
- High precision Frequency Counter

MODEL	SDG1032X	SDG1062X	SDG6022X
Maximum Frequency	30MHz	60MHz	200MHz
Maximum Sampling Frequency	150Msps	150Msps	2.4Gsps
Frequency Triangle Ramps Range	1μHz - 500kHz	1μHz - 500kHz	1μHz - 500kHz
Resolution	1 μHz	1 μHz	1 μHz
Minimum Pulse Width	32.6ns	32.6ns	3.4ns
Arbitrary Waveforms	Yes	Yes	Yes
Rise - Fall Time	4.2 (Square) ns, 22.4 (Pulse) s	4.2 (Square) ns, 22.4 (Pulse) s	1 (PRBS) μs, 2 (Pulse) ns, 2.4 (Square) ns, 2.6 (Arbitrary)
Sweep	Linear, Logarithmic	Linear, Logarithmic	Linear, Logarithmic
Maximum Output Amplitude	20V Pk-Pk	20V Pk-Pk	20V Pk-Pk
Dimensions; Weight	260.3 × 295.7 × 107.2mm; 3.4kg	260.3 × 295.7 × 107.2mm; 3.4kg	260.3 × 295.7 × 107.2mm; 3.4kg

RSDG1032X	188-2473
RSDG1062X	188-2474
RSDG6022X	188-2475

BENCH SIGNAL GENERATORS & ANALYSERS

AFG21000 AND AFG21100 SERIES ARBITRARY FUNCTION GENERATORS

Our AFG21000/AFG21100 AFGs use direct digital synthesis (DDS) to generate signals at precise frequencies through a unique memory access and clocking mechanism.

They offer an accurate and affordable signal source covering the output of Sine, Square (Pulse), Ramp (Triangle), Noise and Arbitrary waveforms.

COMMON INFORMATION

Features and Benefits

- Sine, Square, Triangular, Noise and Arbitrary waveforms
- 0.1Hz resolution of Sine, Square and Triangular waveforms
- 20MSa/s sampling rate, 10 bit vertical resolution and 4 Kpts memory
- 1% - 99% adjustable duty cycle for Square waveform
- Waveform parameter setting through numeric keypad entry and knob selection
- Amplitude, DC offset and other key setting information displayed simultaneously on the 3.5in LCD screen
- USB device interface for remote control and waveform editing
- PC arbitrary waveform editing software

Supplied with:
Power cord, test lead, quick start guide, user manual CD

SPECIFICATIONS / RANGES / MODEL	AFG21005 123-3529	AFG21012 123-3530	AFG21025 124-0226	AFG21105 123-3531	AFG21112 123-3532	AFG21125 123-3533
Maximum Frequency Sinewave	5MHz	12MHz	25MHz	5MHz	12MHz	25MHz
Minimum Frequency Sinewave	0.1Hz			0.1Hz		
Maximum Frequency Square Pulse and Arbitrary Waveform	5MHz	12MHz	25MHz	5MHz	12MHz	25MHz
Minimum Frequency Square Pulse and Arbitrary Waveform	0.1Hz			0.1Hz		
Maximum Frequency Triangle/Saw	1MHz			1MHz		
Minimum Frequency Triangle/Saw	0.1Hz			0.1Hz		
AM/FM/FSK Modulation	N			Y		
Sweep	N			Y		
Frequency Counter	N			Y		
Time Base Accuracy	±20ppm			±20ppm		
Input Impedance	1kΩ			1kΩ		
Output Amplitude (mV Pk-Pk)	1 → 10, 2 → 20 (Open Circuit)			1 → 10, 2 → 20 (Open Circuit)		
Output Impedance	>300kΩ (Output Disabled), 50kΩ (Fixed)			>300kΩ (Output Disabled), 50kΩ (Fixed)		
Interface Type	USB			USB		
Modulation and Counting	-			AM/FM/FSK Modulation, Sweep and Frequency Counter		
Dimensions	266 × 293 × 10mm			266 × 293 × 10mm		
Weight	2.5kg			2.5kg		

BENCH SIGNAL GENERATORS & ANALYSERS

AFG21225 TRUE DUAL CHANNEL ARBITRARY WAVEFORM FUNCTION GENERATOR

AFG21225 is a base-level dual-channel arbitrary function generator which offers superior functions in its class.

The two channels are similarly equipped in order to accommodate dual-signal applications such as differential signalling or IQ modulation. They can be used in either independent or correlated (Couple, Tracking, Phase) configuration.

- 1μHz resolution in full range
- Built-in standard 120 MSa/s, 10 bit, 4Kpts arbitrary function for both channels
- True dual-channel output
- Dual-channel supports Couple, Tracking, Phase operations
- 1% - 99% adjustable duty cycle for square waveform

- User-friendly interface for easy parameter setting and parameter display
- Built-in standard AM/FM/PM/FSK/SUM/Sweep/Burst and Frequency Counter
- USB host/device interface for remote control and waveform editing

RS CAL

Size & Weight:
266 × 293 × 107mm: 2.5kg

Supplied with:
Power cord, test leads (x2), user manual CD, quick start guide

MODEL	123-3534
Frequency Range (Sinewave)	1μHz - 25MHz
Frequency Range Square Pulse and Arbitrary Waveform	1μHz - 25MHz
Time Base Accuracy	±20ppm
Output Impedance	50Ω
Operating Temperature	0°C - +40°C

AFG-21225 FUNCTION GENERATOR AND COUNTER | 123-3534

AFG3051 FUNCTION GENERATOR

The feature-rich AFG-31000 Series is a flexible signal source designed to meet the diverse requirements of the markets for AWGs.

It features 200MSa/s sample rate, 100MHz repetition rate by true point-by-point edit, 16-bit vertical resolution and 1Mpts waveform length. Stand-out features are user-friendly operation, On Screen Help and multiple ways of arbitrary waveform editing.

Areas of Application
- Industry
- Scientific research
- Education

RS CAL **UKAS - ILAC**

- Wide rrequency range
- 1 μHz frequency resolution throughout full range
- Standard waveforms Sine, Square, Triangle, Ramp, Pulse, Noise
- Built-in AM, FM, PWM, FSK, Sweep and Burst functions
- 16-bit, 200 MSa/s, 1 Mpts deep arbitrary waveform
- Direct Waveform Reconstruction (DWR) capability
- Arbitrary waveform editing PC software
- 4.3 inch, high resolution LCD display
- GPIB, RS-232C, USB host/device standard interfaces

MODEL	124-0227
Maximum Frequency Range Sinewave	50
Maximum Frequency Range Square Pulse and Arbitrary Waveform	50
Maximum Frequency Range Triangle/Saw	1
Output Impedance	50Ω
Output Amplitude	10mV Pk-Pk → 10 V Pk-Pk
Operating Temperature	0°C - +40°C
Interface Type	GPIB, RS-232, USB
Dimensions	265 × 374 × 107mm
Weight	4kg

AFG-3051 FUNCTION GENERATOR | 124-0227

RSFR-100 SERIES FANLESS POWER SUPPLIES

Introducing the RSFR-100 Series of Fanless Bench Power Supplies. These compact and high-performance D/C power supplies allow users to work without additional noise being created by the power supply due to the fanless design.

SPECIFICATIONS / RANGES / MODEL	RSFR-100L 180-4806	RSFR-100L+(LAN/GPIB) 180-4807	RSFR-100M 180-4808	RSFR-100M+(LAN/GPIB) 180-4809
Output Voltage	0 - 50V	0 - 50V	0 - 250V	0 - 250V
Output Current	10A	10A	2A	2A
Number of Outputs	1	1	1	1
Power Rating	100W	100W	100W	100W
Supply Voltage	85 - 265V AC	85 - 265V AC	85 - 265V AC	85 - 265V AC
Number of Displays	1	1	2	2
Input Connector	RS232, RS485, USB	IEC Type Plug	RS232, RS485, USB	GPIB, LAN, RS232, RS485, USB
Output Connector	RS232, RS485, USB	USB	RS232, RS485, USB	GPIB, LAN, RS232, RS485, USB
Operating Temperature	0°C - +40°C	0°C - +40°C	0°C - +40°C	0°C - +40°C

COMMON INFORMATION

- Constant Power Output for Fivefold Multi-Range(V&I) Operation
- Preset Memory Function
- Output ON/OFF Delay Function
- Adjustable Slew Rate for Voltage and Current
- Bleeder Circuit Control to rapidly discharge and prepare for the next operation

- OVP, OCP, AC FAIL and OTP can be monitored remotely
- Built-in USB and RS-232/485 Interface Optional LAN+GPIB
- Built-in Web Server Monitoring
- External Analog Control and Monitor Function

DIGITAL BENCH POWER SUPPLIES

This accurate, highly reliable series of 4 single output, digitally control DC power supplies are easy to use, compact and lightweight. All in the range have a simple to read, 4 digit LED display of voltage and current values. These units are ideal for use in various applications, including in production environments, laboratories, colleges and others.

SPECIFICATIONS / RANGES / MODEL	RS6005P 175-7365	RS6005D 175-7366	RS3005P 175-7367	RS3005D 175-7368
Output Voltage	60V DV	0 → 30V DV	0 → 30V DV	1 → 30V DV
Output Current	0 → 5A	0 → 5A	0 → 5A	1 → 5A
No. of Outputs	1	1	1	2
Type	Digital	Digital	Digital	Digital
Power Rating	300W	300W	150W	150W
No. of Displays	2	4	4	4
Minimum Temperature	0°C	0°C	0°C	0°C
Maximum Temperature	40°C	40°C	40°C	40°C
Supplied with	User manual, Power cord (1.2m, 1 x UK plug & 1 x EURO plug for European market), USB cable, software CD			

COMMON INFORMATION

- Complete programmable
- Industrial grade, with load for a long time
- Encoder-controlled fine & coarse adjustment
- Intelligent temperature-controlled fan
- Compact design
- Constant current & constant voltage
- Current pre-set

- 4-digital display
- 10mV / 1mA high accuracy and resolution
- Low noise and ripple
- Knob Lock function to avoid improper operation
- Interfaces: USB and RS232
- Input Voltage: 230 V (±10%)
- UK & Euro leads supplied

SWITCHING DC POWER SUPPLIES
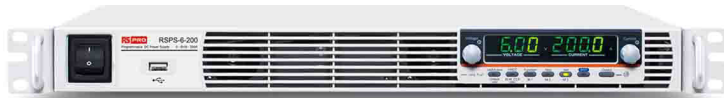
These versatile Programmable Switching DC Power Supplies cover a power range of up to 1520W, a combination of 6V to 40V rated voltages and can be connected in a series of 2 units or 4 units in parallel.

The combination of multi-range power and series/parallel connection reduces the cost of power supply products to accommodate projects with different power requirements. CV/CC priority selection protects the DUT from inrush current damage, making possible tasks that would be challenging for a conventional power supply.

The adjustable slew rate enables operators to set for either output voltage or output current, a specific rise time from low to high-level transition, and a specific fall time from high to low-level transition.

SPECIFICATIONS / RANGES / MODEL	RSPS-6-200	201-0441	RSPS-12.5-120	201-0442	RSPS-20-76	201-0443	RSPS-40-38	201-0444	RSPS-60-25	201-0445
Output Voltage	0 → 6V		0→12.5V		0→20V		0→40V		0→60V	
Output Current	0 → 200A		0→120A		0→76A		0→25A		0→200A	
Number of Outputs	1		1		1		1		1	
Output Power Rating	1200W		1500W		1520W		1520W		1500W	
Input Connector	LAN, RS232, USB		LAN, RS232, USB		LAN, RS232, USB		LAN, RS232, USB		LAN, RS232, USB	
Operating Temperature	0°C - +50°C		0°C - +50°C		0°C - +50°C		0°C - +50°C		0°C - +50°C	

COMMON INFORMATION

- Available in a compact 19" rack mount size design for easy storage without taking up valuable space
- The large backlit LCD panel includes output and parameter views
- CV / CC constant voltage and constant current modes, which is particularly useful for applications within the battery and LED industries
- OVP (over-voltage protection) and OCP (over-current protection) protection from unexpected conditions

- Built-in analogue, LAN, USB, RS-485 and RS-232 interface giving greater flexibility for use
- High efficiency and high-power density
- Series and Parallel Operation (2 Units in Series/4 Units in Parallel Maximum) for added functionality across a range of applications

IPS SERIES LINEAR DC POWER SUPPLIES

With cutting edge technology at a keen price, the IPS series multiple output programmable linear DC power supplies offer a choice of models between 2, 3 and 4 independent output channels, supporting a maximum output from 180W to 195W.

The power supplies include four sets of memory for voltage and current setting, a USB remote interface, high resolution (IPS-2303S, IPS-3303S & IPS-4303S) and intelligent fan control to reduce noise.

SPECIFICATIONS / RANGES / MODEL	IPS3558 123-3558	IPS3559 123-3559	IPS3560 123-3560	IPS3561 123-3561
Power Rating	180W	195W	195W	195W
Type	Digital	Digital	Digital	Digital
Number of Displays	4	4	4	4
Minimum Temperature	0°C	0°C	0°C	0°C
Maximum Temperature	+40°C	+40°C	+40°C	+40°C
Output Connector	Banana Plugs	Banana Plugs	Banana Plugs	Banana Plugs
Output Voltage	2 × 0 → 30V	2 × 0 → 30V, 2.5 → 5V	2 × 0 → 30V, 2.5 → 5V	0 → 5V, 2 × 0 → 30V
Output Current	2 × 0 → 3A	3 × 0 → 3A	3 × 0 → 3A	0 → 1, 3 × 0 → 3A
Supply Voltage	100 → 230V AC	100 → 230V AC	100 → 230V AC	100 → 230V AC
Number of Outputs	2	3	3	4
Category	Bench power supplies	Bench power supplies	Bench power supplies	Bench power supplies
Size	210 × 130 × 265mm	210 × 130 × 265mm	210 × 130 × 265mm	210 × 130 × 265mm
Weight	7kg	7kg	7kg	7kg
Supplied with	User manual, power cord			

COMMON INFORMATION

- 2, 3 or 4 independent isolated outputs (depending on choice of model)
- 4 LED display sets - 3 digits after decimal point (IPS-2303S, IPS-3303S & IPS-4303S)
- Minimum resolution 1mV / 1mA (IPS-2303S, IPS-3303S & IPS-4303S), 100mV / 10mA (IPS-3303D)
- Digital panel control (rotary encoder switch, rubber key with indicator)

- User-friendly operation, Coarse / Fine volume control
- 4 sets memory Save / Recall
- Key lock
- Output On / Off
- Tracking series and parallel modes
- Smart cooling fan for low noise
- PC software and USB driver
- USB standard interface

RS-D3305P SERIES BENCH POWER SUPPLY

The RS-D3305P is a high-quality, versatile piece of equipment that can be used for a variety of applications and can be bought as a non-calibrated or calibrated (RS Calibration or UKAS Calibration) machine. This bench power supply is of an industrial grade which allows to work for long periods of time, without compromising the quality of the tests that are being run.

• Low noise and ripple feature that allows for greater clarity and less noise in the working environment
• Complete programmable allowing users to self-define voltage and current under rated power conditions to satisfy them with wider voltage and current operational ranges

MODEL	RS-D3305P
Output Voltage	0 - 30V
Output Current	0 - 5 (Adjustable) A, 3(Fixed) A
Number of Outputs	3
Supply Voltage	230V
Number of Displays	1
Input Connector	IEC 320-C14
Output Connector	LAN, RS232, USB
Dimension; Weight	146×252×375mm; 10.38kgs

RS-D3305P	180-8785

RS-A3305P SERIES BENCH POWER SUPPLY

An essential piece of equipment, the RS-A3305P is a high-performance D/C power supply which allows users to work without additional noise, due to the low noise level and ripple function. Work for long periods of time, without compromising the quality of tests with this industrial grade DC power supply.

• 5 sets of parameters can be stored and recalled for frequent testing
• 100 sets of stored parameters inside for programmable recall
• The remote measurement terminal compensates the voltage drop of the wire

MODEL	RS-A3305P
Output Voltage	0 - 30V
Output Current	0 - 5 (Adjustable) A, 3 (Fixed) A
Number of Outputs	3
Supply Voltage	230V
Number of Displays	1
Input Connector	IEC 320-C14
Output Connector	RS232, USB
Dimensions; Weight	380×250×145mm; 9.4 kg

RS-A3305P	180-8786

IPS303DD DIGITAL BENCH POWER SUPPLY

Our IPS303DD is a single output, 90W linear DC power supply. It features overload and reverse polarity protection (maintained at 0.01%) and low ripple/noise (maintained at <1 mVrms). Continuous or dynamic internal load selection accommodates applications such as pulsed current.

A remote control terminal offers programming and operation from an external device.

RS CAL   UKAS - ILAC

• 0.01% high regulation
• Constant voltage and constant current operation
• Remote control for external programming
• Internal select for continuous or dynamic load
• Low ripple and noise
• Overload and reverse polarity protection
• Series or parallel operation
• Power source AC 100 V / 120 V / 220 V / 240 V ±10%, 50 / 60 Hz
• Light and compact design

Dimensions:
128 × 145 × 285mm

Supplied with:
User manual, power cord, test lead

MODEL	IPS-303DD
Output Voltage	0 - 30V DC
Supply Voltage	100 - 240V AC
Output Current	0 - 3A
Power Rating	90W
Output Connector	Plug-In terminal block
Number of Outputs	1
Number of Displays	2
Operating Temperature	0°C - +40°C

IPS-303DD DIGITAL BENCH POWER SUPPLY	123-3564

RSPM-8213 AC POWER METER

A highly accurate power meter specifically designed for the measurement of single-phase (1P/2W) AC power units.

This versatile meter provides a diverse measurement of items and functions, including voltage, current, frequency, active power, apparent power, reactive power, power factor, crest factor, and total harmonic distortion.

The meter also incorporates two data display modes consisting of a standard display and a simple display, depending on the type of application required.

- 4" TFT LCD five-digit measurement display
- Perfect for single-phase (1P/2W) AC power supply's power measurements
- Basic accuracy : ±(0.1% of reading + 0.1% of range)
- Front panel test terminal
- Standard interfaces: RS-232C, USB Device, LAN
- Optional test fixture : GPM-001
- Standard display: displaying two major measurement items + six minor measurement items
- Simple display: displaying test data of four different measurement items
- Voltage/current test frequency : DC ~ 6 kHz
- Watt resolution: 1 mW
- Current Resolution : 0.1 A
- Current/Voltage measurements reach CF=3 for distorted wave and CF=6 for half range
- W-h power vs time/A-h current vs time integration function
- Total harmonic distortion measurement

MODEL	RSPM-8213
Absolute Maximum Power Measurement	2W
Absolute Maximum AC Current Measurement	20A AC, 200mA AC
Absolute Maximum DC Current Measurement	20A DC, 200mA DC
Absolute Maximum DC Voltage Measurement	300V DC, 600V DC
Best DC Voltage Accuracy	0.1 of Reading + 0.1 of Range %
Best DC Current Accuracy	0.1 of Reading + 0.1 of Range %
Dimensions; Weight	270 × 350 × 110mm; 2.9kg
Power Source	Mains

RSPM-8213	180-4805

RSAS-2050 COMPACT PROGRAMMABLE AC/DC POWER SUPPLY

The RSAS-2050 provides both rated power output for AC output and rated power output for DC output of up to 999.9 Hz.

The high-quality unit also provides users with waveform output capabilities to meet the test requirements of different electronic component development, automotive electrical devices and home appliances, ensuring that it is flexible and functional across a wide range of test and measurement applications.

In addition to this, the remote sense function ensures accurate voltage output, while OVP, OPP and OCP levels can be selected and, when tripped, will cause power output to be switched off to protect the DUT.

- The large backlit LCD panel includes output and parameter views
- The customized phase angle for Output On/Off function can set the starting angle and ending angle of the voltage output according to the test requirements
- OVP (over-voltage protection), OCP (over-current protection) and OPP (over-power protection) protection from unexpected conditions and protect the DUT during testing
- The unit also incorporates a fan fail alarm function and AC fail alarm function
- Built-in I/O, USB and LAN interface offer greater flexibility for use
- A universal socket is provided on the front panel to allow users to plug and go, saving valuable installation time

MODEL	RSAS-2050
Absolute Maximum Power Measurement	2W
Absolute Maximum AC Current Measurement	20A AC
Power Source	Mains
Dimensions; Weight	285 × 124 × 480mm (not including protrusions) ; 11.5kg

RSAS-2050	201-0451

RSPEL-3032E PROGRAMMABLE D.C. ELECTRONIC LOAD

This RSPEL-3032E programmable single channel DC electronic load is a versatile device ideal for testing a range of power supplies. The highly reliable electronic load features high speed and accurate measurement, offering excellent measurement capability for an electronic component, battery, portable charger and power supply that requires low to medium power consumption.

The RSPEL-3032E offers seven operating modes, providing you with a range of options depending on the application required. Another excellent feature is the soft start function that not only allows monotonic increasing of output voltage, but also prevents inrush current and surge voltage from happening on DUT.

- 2.5-500V Min. Operating Voltage(DC): 2.5V at 15A, 1.25V at 7.5A
- 7 Operating Modes: CC, CV, CR, CP, CC+CV, CR+CV, CP+CV
- Normal Sequence Function: Max Steps: 1000 steps/Step Time: 1 ms~999h 59min 59s (3599940 sec) Fast Sequence Function: Max Steps: 1000 steps/Step Time: 25 us~600 ms
- Soft Start
- BATT Test Automation: Max Test Time: 999h: 59min 59s (3599940sec): Max Test AH:9999.99Ah
- OCP, OPP Test Automation
- Max. Slew Rate: 2.5A/s
- Dynamic Mode
- Protection: OVP, OCP, OPP, OTP, RVP, UVP
- Remote Sense
- Integrate Voltage, Current and Power Measurement Functions
- External Voltage or Resistance Control
- Rear Panel BNC, Trigger IN/OUT
- Analog External Control
- USB/GPIB (Optional)

MODEL	RSPEL-3032E
Load Type	Programmable
Constant Wattage Mode Range	0 - 300W, 0 - 306W
Constant Voltage Mode Range	0 - 510V, 2.5 - 500V
Constant Current Mode Range	0 - 15A, 0 - 15.3A
Constant Resistance Mode Range	0.16666Ω to 5kΩ, 1.6666Ω to 50kΩ

RSPEL-3032E	180-4794

RS-KEL103 SINGLE CHANNEL ELECTRONIC LOAD

The RS-KEL103 single channel electronic load from RS PRO, is a highly reliable device ideal for testing a range of power supplies, ensuring they meet standard safety and compliance standards.

The unit features 4 working modes CV (constant voltage), CC (constant current), CR (constant resistance), CW (continuous wave), making it ideal for general purpose measurement on a range of power supplies. It offers flexibility when testing and loading power sources, allowing to sink various levels of power profiles in the multiple modes. This reliable device also features a short circuit function, which is ideal for power and automated testing. The RS-KEL103 load features a clear and user friendly interface, allowing you to clearly navigate the device with USB, RS232 & LAN capabilities.

- Dynamic mode: up to 10kHz
- Resolution of voltage and current: 0.1mV/0.1mA
- 4 working modes: CV/CC/CR/CW
- Remote sensing function
- Battery test, automatic test, OPP test, OCP test functions
- 100 sets of storage
- Short circuit function
- Power off memory function
- Interfaces: USB, RS232 & LAN

MODEL	RS-KEL103
Load Type	Programmable
Constant Wattage Mode Range	0 - 300W
Constant Voltage Mode Range	0 - 120V
Constant Current Mode Range	0 - 30A
Constant Resistance Mode Range	0.05 - 7.5kΩ
Rack Units	386mm

RS-KEL103	180-8788

RSBM-3000 SERIES OHMMETER BATTERY TESTERS

The RSBM-3000 series of ohmmeters, are a range of highly accurate and powerful desktop battery testers used for measuring electrical resistance, expressed in ohms. These ohm meters use AC 1kHz as the test signal, allowing you to measure battery voltage and internal resistance to 300 V with accuracy.

This range features a clear and user-friendly interface including a 3.5 inch TFT LCD display screen, durable navigation buttons, test terminal and a USB host. Data from the measurement process can be stored and transferred to a computer via a flash drive for further analysis, without being limited to the connection with the computer.

- Basic Accuracy For Voltage Measurement : 0.01%
- Basic Accuracy For Resistance Measurement : 0.5%
- Measurement Resolution up to 0.1µΩ and 10µV, Suitable For Single-cell Measurement
- Independent Go/NoGo Determination Function For Voltage and Resistance Respectively
- The Judgment Mechanism of Test Lead (Probe) Disconnect / Contact Failure is to Ensure The Measurement Reliability

MODEL	RSBM-3300	RSBM-3080
Battery Type	300V	80V
Measurement Items	DC Voltage and AC Resistance	DC Voltage and AC Resistance
Maximum Resistance Measurement	3.2kΩ	3.2kΩ
Resistance Measurement Resolution	100nΩ	100nΩ
Measurement Type	4 Wire	4 Wire
Maximum Accuracy	0.5%	0.5%
Standard Interfaces	USB Host/Device, RS-232C and Handler	USB Host/Device, RS-232C and Handler
Power Source	Mains	Mains
Dimensions; Weight	264 × 309 × 107mm; 2.8kg	264 × 309 × 107mm; 2.8kg

RSBM-3300	180-4810
RSBM-3080	180-4811

R-100 RESISTANCE DECADE BOX

Designed to measure the resistance of electric current through an electrical conductor, the R-100 Resistance decade box offers 7 decades of resistance ranging from 1 to 11MΩ and is suitable for a wide range of product design, and prototyping applications or calibration and troubleshooting tasks.

- This RS PRO decade box has been specifically designed to measure the resistance of an electrical current using 7-decade ranges of resistance with accuracy and reliability
- The heavy-duty construction of the box makes the device ultra-durable and ideal for working in the field or harsh environments
- It offers a separate grounding terminal and the three binding posts permit isolated substitutions
- The resistance range of the box is from 1 to 111Ω in 1Ω increments
- Powered by 0.3W resistors, this decade resistance box ideal for a wide range of applications

MODEL	R-100
Decade Box Type	Resistance
Best Maximum Resistance Accuracy	1%
Power Rating	0.3W
Operating Temperature	0°C - +500°C
Dimensions; Weight	14 × 13.1 × 3cm; 295g

R-100	193-8686

BENCH ELECTRONIC COMPONENT TESTING

LCR6000 SERIES HIGH PRECISION LCR METER

The compact LCR6000 series meters feature a 0.05% basic accuracy, 2U half-rack size and large (3.5 inch) colour LCD. Measurement efficiency is increased by the simultaneous display on screen of not only setting criteria and measured results but also two additional monitoring parameters. The measurement results include a Pass/Fail display for fast validation.

Operators can freely change frequency, within the range of the model, so can save the time and hassle of repeating zero operations. Four models are available in this guide according to the test frequency range required.

SPECIFICATIONS / RANGES / MODEL	LCR-6002	117-6718	LCR-6020	117-6717	LCR-6100	117-6716	LCR-6200	117-6715
Maximum Test Frequency	2kHz		20kHz		100kHz		200kHz	
Maximum Inductance Measurement	9999.99H		9999.99H		9999.99H		9999.99H	
Maximum Resistance Measurement	99.9999MΩ		99.9999MΩ		99.9999MΩ		99.9999MΩ	
Maximum Capacitance Measurement	9999.99mF		9999.99mF		9999.99mF		9999.99mF	
Display Type	3.5inch LCD		3.5inch LCD		3.5inch LCD		3.5inch LCD	
Power Source	Mains		Mains		Mains		Mains	
Bench/Handheld	Bench		Bench		Bench		Bench	
Dimensions	265 × 312 × 107mm		265 × 312 × 107mm		265 × 312 × 107mm		265 × 312 × 107mm	
Weight	3kg		3kg		3kg		3kg	
Areas of application	Research & Development, Production test, Component assessment, IQC for verification on component specifications							
Supplied with	Safety instructions, power cord, test fixture LCR-06A, CD (user manual, PC software)							

COMMON INFORMATION

- Consecutive Test Frequency
- Measuring speed up to maximum 25ms
- Full frequency range or spot OPEN/SHORT
- 16 major/secondary parameter measurement combinations and 2 additional monitoring parameters (maximum 4 different parameters can be shown simultaneously)
- DCR measurement and internal DC bias voltage (±2.5V)

- Auto Level Control (ALC) function
- BIN function provides 9BIN and 1AUX
- 10 points listed test function to select different frequency, voltage and current criteria
- RS-232C, Handler and USB storage interfaces

BENCH ELECTRONIC COMPONENT TESTING

RSST-2000 SERIES ELECTRICAL SAFETY ANALYSERS

The RSST-2000 Series is the world's first safety analyser to comply with IEC 61010-2-034. The range has four models to choose from, each catering for a wide range of applications and features for greater functionality, as well as an output capacity of 200VA. The analysers use a high-efficiency PWM amplifier to effectively exclude the influence from the fluctuating input voltage or distorted waveforms to ensure a stable high-voltage output while conducting AC withstanding voltage test on the DUT to meet safety regulations. When convenience and precision is required in electrical safety applications, this range of RS PRO testers sets a reliable standard.

MODEL	RSST-2001	RSST-2002	RSST-2003	RSST-2004
Test Voltage Range	50V - 1200V	50V - 1200V	50V - 1200V	50V - 1200V
Display Type	TFT LCD	TFT LCD	TFT LCD	TFT LCD
Power Source	Mains	Mains	Mains	Mains
Safety Category Level	CAT I	CAT I	CAT I	CAT I
Plug Type	Mains	Mains	Mains	Mains
Dimensions; Weight	380 × 148 × 436mm; 11kg	380 × 148 × 436mm; 12kg	380 × 148 × 436mm; 13kg	380 × 148 × 454mm; 15kg

RSST-2001 AC ELECTRICAL SAFETY ANALYSER	201-0446
RSST-2002 AC/DC ELECTRICAL SAFETY ANALYSER	201-0448
RSST-2003 AC/DC/IR ELECTRICAL SAFETY ANALYSER	201-0449
RSST-2004 AC/DC/IR/GB ELECTRICAL SAFETY ANALYSER	201-0450

RM804/805 SERIES HIGH PRECISION PROGRAMMABLE DC MILLI-OHM METERS

Our RM804/805 series DC milli-ohm meter models offer handler, RS-232C and USB device interfaces (RM804, 122-5158) plus option 01 GPIB (RM804-01, 122-5157) or standard GPIB (RM805, 122-5156).

Model RM-805 also offers drive modes DC+/DC-, pulsed, PWM, zero, for measurement applications on different materials.

COMMON INFORMATION

- 50 000-count
- 3.5 inch (320 × 240) TFT LCD display
- High accuracy, 0.05% precision
- 1 A test current, 1 µΩ resolution
- Fast measurement, 60 readings per second
- Four wire resistance measurement
- Temperature compensation measurement function
- Delayed measurement
- 20 sets of panel setting memory
- Interface - USB device, RS-232C, Handler/Scan/EXT I/O, and GPIB (option)

MODEL	RM-805	RM-804-01	RM-804
Maximum Resistance Measurement	5MΩ	5kΩ	5MΩ
Resistance Measurement Resolution	1µΩ	1µΩ	1µΩ
Power Source	Mains	-	Mains
Measurement Type	4 Wire	-	4 Wire
Maximum Accuracy	+0.2%	-	+0.2%
Minimum Accuracy	0.05%	-	0.05%
Operating Temperature	-50°C - +399.9°C	-	-50°C - +399.9°C
Handheld	Yes	-	Yes
Dimensions	223 × 102 × 283mm	283 × 102 × 223mm	223 × 102 × 283mm
Weight	4kg	3kg	4kg

RM-805 HIGH PRECISION PROGRAMMABLE DC MILLIOHM METERS	122-5156
RM-804-01 HIGH PRECISION PROGRAMMABLE DC MILLIOHM METERS	122-5157
RM-804 HIGH PRECISION PROGRAMMABLE DC MILLIOHM METERS	122-5158

ENVIRONMENTAL AIR & GAS MEASUREMENT

METHANE GAS LEAK DETECTORS

The MICRO combustible gas leak detector is a gas leak locating tool. It is used to identify the presence of and isolate the source location of combustible gasses such as methane, propane, butane, ammonia, carbon dioxide and many more.

It detects gas concentrations by using an internal sensor and indicates the presence of combustible gasses with visual, audio and vibration feedback mechanisms.

It can detect different combustible gas concentration 1 ppm to 1000 ppm or 0-10000ppm by setting high and low concentration detection.

MODEL	144-5342	144-5341
Gases Detected	Methane	Methane
Response Time	2s	2 s
Application	Combustion Appliance	Combustion Appliance
Meter Type	Handheld	Handheld
Display Type	LED	LCD

MODEL	144-5342	144-5341
Audible Alarm	Yes	Yes
Visual Alarm	Yes	Yes
Power Source	Battery	Battery
Battery Type	Li-Ion Polymer	Li-Ion Polymer

LED	144-5342
LCD	144-5341

6 IN 1 HANDHELD PARTICLE COUNTER AND GAS DETECTOR

- 2.8"TFT Colour LCD display, 320*240 pixels
- Images (JPEG) & Video (3GP)
- Micro SD (max, use 8GB) memory card
- Simultaneously measure and display 6 channel of particle sizes.
- HCHO detectors
- TVOC detectors
- C02 detector
- Air temperature and humidity
- Dewpoint & Wetbulb temperature
- MAX, MIN, DIF, AVG record, Date/time setup controls

MODEL	174-6576
Accuracy	±0.5 %, ±2.5 %, ±5 %
Display Type	TFT LCD
Audible Alarm	Yes
Power Source	Battery
Battery Type	Rechargeable NiMH
Dimensions; Weight	240 × 57 × 75mm; 570g

SIX IN 1 PARTICLE COUNTER	174-6576

PARTICLE MASS CONCENTRATION AND CO2 MONITORS

This meter measures AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Frequency (electrical & electronic), Duty Cycle, Diode Test,Insulation Test, and Continuity plus Thermocouple Temperature. It can store and recall data. It features a waterproof, rugged design for heavy duty use. Proper use and care of this meter will provide many years of reliable service.

MODEL	174-6575	174-6574
Gases Detected	Carbon Dioxide	Carbon Dioxide
Accuracy	±1 %, ±3.5 %, ±5 %	±1 %, ±3 %, ±5 %
Display Type	LCD	LED
Audible Alarm	Yes	Yes
Power Source	Battery	Battery

MODEL	174-6575	174-6574
Battery Type	Rechargeable NiMH	Rechargeable NiMH
Weight	360g	210g
Width	73mm	48mm
Length	85mm	110mm
Height	160mm	100mm

PARTICLE AND CO²	174-6575
CO²	174-6574

DT-3893 & DT-8880 THERMO-ANEMOMETERS

These high-quality vane anemometers have been designed for the measurement of air velocity, airflow as well as air temperature and provide rapid, accurate readings without compromising on quality or performance. They are equipped with a large, easy to read backlit LCD display to allow for quick and easy readings, even in low light conditions making this meter ideal for engineers, service technicians and scientists.

The RS-3893 is a fantastic anemometer which uses a high precision rotating sensor to deliver precise readings, even at low wind speeds, as well as simultaneously measuring the air temperature with the built-in NTC thermistor,

The RS-8880 uses a high precision probe to deliver precise readings, even at low wind speeds. It can also simultaneously measure the air temperature with a built-in thermistor.

SPECIFICATIONS / RANGES / MODEL	DT-3893	193-8696	DT-8880	193-8699
Measurement Parameters	Air Flow, Air Velocity, Temperature		Air Flow, Air Velocity, Temperature	
Maximum Air Velocity	30m/s		25m/s	
Best Air Velocity Accuracy	±3 %		±5 %	
Air Velocity Resolution	0.01m/s		0.01m/s	
Best Temperature Measurement Accuracy	±2°C		1°C	
Power Source	Battery, 9V		Battery, Rechargeable	
Dimensions; Weight	62 × 21 × 160mm; 200g		210 × 75 × 50mm; 280g	
Operating Temperature	0°C - 50°C		0°C - 50°C	

COMMON INFORMATION

- A high-quality and robust design that offers accurate and reliable results and can be used across a variety of applications
- Hand-held wind-speed measurement instrument with user-friendly, easy to use control keys
- Precision air velocity for precision measurement, even at low wind speeds and built-in NTC thermistor sensors that can simultaneously measure air temperature
- Air velocity can be displayed in the following units: m/s, km/h, ft/min, MPH and knots
- Airflow can be displayed in the following units: CMM (cubic meters/min) and CFM (cubic feet/min)

- Air temperature can be displayed in°C or °F
- Dual-line 4-digit LCD display for easy and clear reading of the measuring data
- Backlight function to enable use in low-light conditions for added versatility
- Auto power-off function after 20 mins to preserve battery life for longer
- This unit can also be calibrated to RSCAL and ISOCAL standards
- Supplied with a replaceable 9V battery, Anemo probe and gift box with carrying case

USB-3 VOLTAGE DATA LOGGER

USB-3 VOLTAGE DATA LOGGER	179-9537

Maximum Voltage Measurement 30V DC, USB, Battery Powered

This high-quality standalone unit can measure and store up to 32,000 readings over a 0 to 30V DC range at a resolution of 50mV DC. It can easily be set up to view the data by using the built in USB interface, making it easy to access the measured data in situ or later for review.

FEATURES AND BENEFITS:

- This voltage data logger has a measurement range of 0 to 30V DC at a resolution of 50mV DC
- Stores over 32,000 voltage readings
- Software available as a free download
- Logging rates between 10 seconds and 12 hours
- Battery powered with an expected life of around 2 years

INCLUDED IN THE BOX:

- PRO-USB-3
- Battery 0 to 30V DC
- Range Cap
- Measurement Leads
- Mounting Bracket

USB-2 TEMPERATURE AND HUMIDITY DATA LOGGER

USB-2 TEMPERATURE AND HUMIDITY DATA LOGGER	179-9536

Maximum Temperature Measurement +176°F, +80°C, USB, Battery Powered, IP67, Humidity Measurement

The USB-2 data logger will store up to 16,000 readings from -35 - 80°C and 0 to 100%RH and is also IP67 rated, making it resistant against water, dust and debris. The unit is compact, portable and incredibly versatile and can easily be set up to view the data by using the built in USB interface, making it easy to access the measured data in situ or later for review.

FEATURES AND BENEFITS:

- Stores over 16,000 temperature readings
- Software available as a free download
- Logging rates between 10 seconds and 12 hours
- IP67 rated
- Battery powered with an expected life of around 2 years
- RS CAL calibration available 179-9542
- UKAS CAL calibration available 179-9544

INCLUDED IN THE BOX:

- PRO-USB-2
- Battery
- Mounting Bracket

USB-1 TEMPERATURE DATA LOGGER

USB-1 TEMPERATURE DATA LOGGER	179-9535

Maximum Temperature Measurement +176°F, +80°C, USB, Battery Powered, IP67

The USB-2 data logger will store up to 16,000 readings from -35 - 80°C and 0 to 100%RH and is also IP67 rated, making it resistant against water, dust and debris. The unit is compact, portable and incredibly versatile and can easily be set up to view the data by using the built in USB interface, making it easy to access the measured data in situ or later for review.

FEATURES AND BENEFITS:

- Stores over 16,000 temperature readings
- Software available as a free download
- Logging rates between 10 seconds and 12 hours
- IP67 rated
- Battery powered with an expected life of around 2 years
- RS CAL calibration available 179-9539
- UKAS CAL calibration available 179-9540

INCLUDED IN THE BOX:

- PRO-USB-1
- Battery
- Mounting Bracket

HIGH ACCURACY CLOUD-CONNECTED TEMPERATURE DATA LOGGER

RS PRO High Accuracy Thermistor Probe Cloud-Connected Temperature Data Logger Kit is highly accurate, reliable, high quality and flexible. RS PRO High Accuracy Thermistor Probe Cloud-Connected Temperature Data Logger Kit has been designed to monitor temperature in a large range of applications, using 75mm length barrel temperature probes on 3m cables. Ideal for monitoring locations perhaps difficult or inhospitable to the data logger, the device is ideal for monitoring refrigeration or storage units.

TEMPERATURE DATA LOGGER, WI-FI, BATTERY POWERED, IP67	172-0571
TEMPERATURE DATA LOGGER, WI-FI, BATTERY POWERED, IP67	172-0564
TEMPERATURE DATA LOGGER, WI-FI, BATTERY POWERED, IP67	172-0566
TEMPERATURE DATA LOGGER, WI-FI, BATTERY POWERED, IP67	172-0558
TEMPERATURE DATA LOGGER, WI-FI, BATTERY POWERED, IP67	172-0560
TEMPERATURE DATA LOGGER, WI-FI, BATTERY POWERED, IP67	172-0568
TEMPERATURE DATA LOGGER, WI-FI, BATTERY POWERED, IP67	172-0562

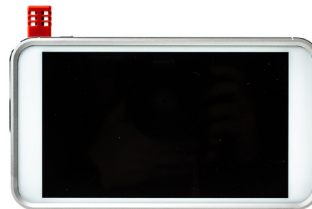## RS-172 HUMIDITY, TEMPERATURE DATA LOGGER

- High accuracy
- Fast response and stability
- Memory 32700 values
- LCD
- Download collected data through PC's USB
- Alarm display
- Analysis software used to view graph for logging data

RS-172 HUMIDITY, TEMPERATURE DATA LOGGER	146-9091
RS-172TK HUMIDITY, TEMPERATURE DATA LOGGER	146-9089

HIGH ACCURACY CLOUD-CONNECTED TEMPERATURE DATA LOGGER

Environment test meters provide multi-functions and help to monitor the environment around us, to make sure we can have a better and healthier life, also to ensure our working environment safer and work more efficiently.

RS-91 HUMIDITY, TEMPERATURE DATA LOGGER	155-8900

LABORATORY TEMPERATURE AND RH DATA LOGGER

- Smart home, App software support
- Temperature and Humidity measuring
- High accuracy measurement
- Graphical/digital interface
- Multi function menu interface, content-rich, interactive
- Large high-resolution colour LCD display, 1024×600
- Touch screen operation, zoom in/out curve
- High and low temperature alarm, and review the value of alarm

MODEL	RS-1700
Number of Input Channels	1
Maximum Humidity Measurement	100%RH
Best Humidity Measurement Accuracy	±3 %RH
Maximum Temperature Measurement	+80 °C

MODEL	RS-1700
Best Temperature Measurement Accuracy	±1 °C, ±1.8 °F
Dimensions	115 × 18 × 180mm
Battery Type	Li-ion

RS-1700	146-9099

IM-195 FIELD EMISSION DETECTOR

This three axis RF field strength meter IM-195 is a great value instrument designed for measuring and monitoring Radio Frequency (RF) electromagnetic field strength.

- Dimensions: 60 × 60 x195mm

MODEL	106-5307
Frequency Range	50MHz to 3.5GHz
Radiation Type	RF Field
Power Source	9V battery
Battery Life	15h
Operating Humidity Range	25% to 75% RH
Temperature Range	0°C - +50°C

IM-195 FIELD EMISSION DETECTOR	106-5307

IM-191 GAUSS METER

RS PRO magnetic field meter IM-191 is a great value instrument for measuring electromagnetic fields of extremely low frequency.

- Dimensions: 130 × 56 × 38mm
- Display 3-1/2 digits LCD, maximum reading 1999
- Display range 20, 200, 2000

MODEL	106-5309
Magnetic Range	20 → 200 μT, 200 → 2000mG
Best Accuracy	±2.5 %
Resolution	0.01 μT, 0.1mG
Frequency Range	30 → 300Hz
Battery Life	100h
Temperature Range	+5°C - +40°C

IM-191 GAUSS METER	106-5309

RS-2G MICROWAVE LEAKAGE DETECTOR

- This RS PRO microwave leakage detector offers an ergonomic and intuitive user design with a large, easy to read LCD display
- It has a high microwave sensitivity and can detect even low levels of radiation with confidence and accuracy, ensuring reliable measurement results
- An audible and visual alarm triggers above the safe level of 5.0 mW/cm2 radiation leakage
- Powered by a 9V battery that offers an operating time of approx. 1 year if routinely checked once a month (supplied with the device)
- Measuring range 0 to 9.99 mW/cm2
- Calibrated at 2450MHz

MODEL	RS-2G
Radiation Type	Microwave
Power Source	9V Battery (supplied)
Dimensions	60 × 42 × 160mm
Weight	151g
Max Operating Temperature	+50°C
Min Operating Temperature	0°C

RS-2G MICROWAVE LEAKAGE DETECTOR	193-8685

RS LA-1017 HANDHELD SOLAR POWER METER AND DIGITAL MULTIMETER

- This RS PRO solar power meter is compact and handheld tester with a rugged design, ideal for when working in harsh environments
- The built-in digital multimeter feature measures continuity, voltage, resistance and electrical current with accurate and reliable readings for the best performance
- The digital LCD screen clearly displays results that are easy to read while the device is in use
- In addition to this, the dual-function solar power meter offers an auto-power off function after being left idle for 15 minutes, as well as a low battery indicator for easier battery life management
- The solar detector unit is connected to the meter using a cord so that it is flexible in movement when detecting sunlight and comes with a protective cap to cover the sensor when it's not in use

MODEL	RS LA-1017
Power Source	AAA Battery
Dimensions	74.5 × 44 × 162mm
Weight	308g

RS LA-1017	193-8689

ILM SERIES LIGHTMETERS

RS CAL

The ILM Series is a great value digital light meter with spectral sensitivity close to the CIE photopic standard curve.

COMMON INFORMATION

- Spectral sensitivity close to CIE photopic curve
- Accurate and instant response
- Data Hold function
- Max/Min function

Supplied with
Carrying case, user manual, battery

SPECIFICATIONS / RANGES / MODEL	ILM1332A 123-2220	ILM1335 123-2221	ILM1337 123-2222	ILM01 123-2223	ILM201L 124-0938
Light Level Range	0.01 - 200000lx	0 - 400000lx	0 - 20000lx	0.01 - 500lx	0 - 200000lx
Best Accuracy	±3%	±3% ± 0.5% digits	±3% + ±5% digits%	±3% + ±5% digits	±3%
Resolution	0.1lx	0.01lx	0.01lx	0.01lx	-
Operating temperature Range	0°C - +40°C	0°C - +40°C	0°C - +50°C	0°C - +50°C	-
Battery Life	200h	400h	400h	100h	-
Power Source	9V battery	AAA battery	AAA battery	AAA battery	9V battery
Sensor Type	Photodiode	Photodiode	-	Photodiode	Photodiode
Dimensions	72 × 33 × 135mm	72 × 35 × 150mm	72 × 35 × 150mm	72 × 35 × 150mm	55 × 38 × 130mm
Weight	250g	320g	320g	320g	250g
Features	Accurate, Data hold, Instant response	Accurate, Auto power off function, Data hold, Instant response, Peak hold function, Relative function	Accurate, Data hold, Instant response	Accurate, Auto Power off function, Data hold, Instant response, Point average function	Manual ranging, Manual zero adjustment, Max hold

RS-8852 SOUND LEVEL METER WITH DATALOGGER

This high-quality sound level meter allows for easy environmental noise measurement for noise and quality management. The built-in datalogger allows easy transfer and analysis of data at a later stage by using a USB cable and conforms to IEC61672-1 Class 2 standards.

The frequency weighting from A to C helps manage sound levels for the human ear even when working in high decibel or frequency environments and it is suitable for use on a wide range of noise measuring applications.

- The large easy-to-read, backlit LCD display makes it easy to read the results, even when the meter is being used in poorly lit areas
- Analogue output for connection to chart recorders, graphic recorders and other data logging systems for added versatility
- Battery-powered or external 9V DC input
- 30-hour battery life with auto-power off function after 15 mins of idle time
- Weight 350g approximately, including battery, making it a perfect lightweight and portable unit
- Supplied with instruction manual, battery, screwdriver, Ø3.5mm earphone plug, software and USB cable for data transfer

MODEL	RS-8852
Maximum Sound Level	30 → 130 (Auto) dB, 80 → 130 (Hi) dB
Minimum Sound Level	30 → 80 (Low) dB, 50 → 100 (Med) dB
Resolution	0.1 dB
Accuracy Class	IEC 61672-1:2002 Class 2
Weighting	A, C
Display Type	LCD
Frequency Range	31.5 Hz to 8kHz
Operating Temperature Range	0°C to +40°C

RS-8852	193-8698

RS-660 NOISE DOSIMETER

This Noise Dose Meter measures the frequency weighted noise exposures and peaks sound levels simultaeously.

- 4 Sets link Charging
- Multiple simulated dosimeters (termed D1, D2 & D3)
- Simple operation, including direct read-out of results
- Ten built–in standard dose measurement setups:
- OSHA-80, OSHA-90, MSHA-80, MSHA-90, DOD, ACGIH, ISO-85, ISO-90, NR-15 and NHO-01
- Pause function
- Nine user defined measurement setups
- 30 dose (DATA) result stores
- Download of setups from PC to the meter
- Keypad lock protects meter against accidental operation
- Timers support pre–selection of measurement time and duration
- USB PC interface for the charging unit

MODEL	RS-660
Sound Level Range	70dB to 140dB
Resolution	1 dB
Accuracy Class	ANSI S1.25, IEC 61252
Weighting	A, C, Type 2, Z
Display Type	LCD
Battery Type	Li Polymer
Interface Type	USB
Operating Temperature Range	0°C to +50°C

RS-660 NOISE DOSIMETER	174-9559

CROWD THERMAL SCREENING SOLUTIONS/ CAMERAS

This range of high-quality infrared (IR) thermal cameras provide accurate and reliable measurement of the human body by combining all the important features for thermographic measurement at an affordable price.

They are hi-tech uncooled thermal cameras that can be used as a non-contact screening method to visualise temperature differences of the skin's surface and are suitable for use across a wide range of applications where quick screening is required, in areas with high footfall volume where it may not be possible to check individual temperatures using a thermometer.

SPECIFICATIONS / RANGES / MODEL	TE-W60	201-2635	TE-W40	201-2636	--	201-2637	RSAI-321	202-0774
Features	• Significant improved stability • Long-distance rapid screening • Non-contact screening, Avoid cross infection • Abnormal temperature alarm		• Significant improved stability • Long-distance rapid screening • Non-contact screening, Avoid cross infection • Abnormal temperature alarm		• Long distance, Large area, Accurate and rapid screening • Temperature measurement data can be traced • Non-contact rapid screening, Avoid cross infection • Continuous recording, alarm automatic capture		• Access Control & Attendance software for Company or School	
Temperature Measurement Range	+20 - +50 °C		+20 - +50 °C		+20 - +50 °C		+32°C - +45°C	
Detector Resolution	160×120pixel		384×288pixel		640×480pixel		1080P	
Thermal Sensitivity	<60mK		<40mK		<60mK		-	
Focus Type	Manual		Manual		Manual		-	
Minimum Focus Distance	0.1m		0.1m		0.18m		-	
Dimensions; Weight	105 × 230 × 245mm; 980g		105 × 230 × 245mm; 980g		232 × 145 × 85mm; 1.5kg		45 × 135 × 268mm; 1.3kg	
Sampling Frequency	50Hz		50Hz		-		-	
Thermal Sensitivity	0.06°C @ 30°C		0.04°C @ 30°C		-		-	
Field of View	25°×19°		25°×19°		20°×17°		89°×57°	
Operating Temperature Range	0°C to +40°C		0°C to +40°C		-20°C to +50°C		10°C to 40°C	
Drop Test	2m		2m		-		2m	
IP Rating	IP54		IP54		IP54		IP54	
Compliance	CE/FCC		CE/FCC		CE		CE, RED, FCC, CA65	
Humidity (Operating and Storage)	≤95% (Non-condensing)		≤95% (Non-condensing)		-		10%~90%	

ENVIRONMENTAL TEMPERATURE MEASUREMENT

RS-9875 THERMAL IMAGING CAMERA

The RS-9875 features a variety of colour palettes such as rainbow, gray, feather and more, making it an incredibly versatile thermographic camera that allows the user to carry out temperature measurement for a number of applications.

KEY INFORMATION

Measurement Range
20 → +400°C

Detector Resolution
160 × 120 pixel

MODEL	RS-9875
Display Resolution	320 × 240 pixel
Thermal Sensitivity	80mK
Best Temperature Measurement Accuracy	±2°C
Focus Type	Manual

MODEL	RS-9875
Refresh Rate	9Hz
Minimum Focus Distance	0.2m
Display Size	3.5in
Weight	920g

THERMAL IMAGER   179-9511

RS-870 THERMAL IMAGING CAMERA WITH BLUETOOTH

The drop-proof, compact and lightweight design of the RS-870 will save time and be able to get quick and precise thermal readings while on the go. The built-in Bluetooth function allows for easy transfer of data for further analysis at the user's convenience.

KEY INFORMATION

Measurement Range
-4 → +716°F, +20 → +380°C

Detector Resolution
80 × 80 pixel

MODEL	RS-870
Display Resolution	240 × 320 pixel
Thermal Sensitivity	100mK
Best Temperature Measurement Accuracy	±2°C
Focus Type	Focus-Free

MODEL	RS-870
Refresh Rate	50Hz
Minimum Focus Distance	0.5m
Display Size	2in

THERMAL IMAGER 80X80 WITH BLUETOOTH   193-8700

T-10 SMART THERMAL IMAGING CAMERA

T-10 is a lightweight and portable infrared thermal imaging camera designed for use with Android smart phones, connecting via a USB-C or Micro-USB. Effortlessly capture, analyse, generate report and share data all from your smartphone, without the need for additional batteries, storage or displays.

KEY INFORMATION

Measurement Range
-10 → 330°C

Detector Resolution
206 × 156 pixel

MODEL	T-10
Display Resolution	-
Thermal Sensitivity	<70.0mK
Best Temperature Measurement Accuracy	±5°C
Focus Type	Manual

MODEL	T-10
Refresh Rate	9Hz
Minimum Focus Distance	0.5m
Display Size	206 × 156px
Weight	54g

FLIR ALTERNATIVE ANDROID THERMAL IMAGER   201-8065

RS-9331 TWO-POLE VOLTAGE INDICATOR AND CONTINUITY TESTER

Built to give fast, accurate and reliable results, the RS-9331 is designed with the user in mind, the large backlit LCD display and easy to use buttons, paired with a clear audible and physical alarm, ensure a safe working environment for any electrician.

KEY INFORMATION

Supplied with
2 × AAA batteries & carry case

IP Rating
IP64 protection

MODEL	RS-9331
Test Current Rating	≤30 µA, ≤5µA
Output Voltage	12 → 1000V AC/DC

MODEL	RS-9331
Dimensions	73 × 34 × 240mm
Operating Temperature	-10°C - +55°C

RS-9331   193-8692

RS-8861 INFRARED THERMOMETER WITH DUAL LASER POINT

This RS PRO infrared temperature detector is a handheld device that can detect the environmental temperature by using a non-contact method of measurement. This instrument also measures surface temperature using an infrared sensor and includes dual laser pointers for better and more accurate targeting.

This non-invasive and non-contact method of temperature measurement removes the issue of having to rely on using a physical contact on the item to get a reading from it, making it ideal for use in industrial environments like steelworks, oil and chemical production and environmental testing.

FEATURES & BENEFITS

- Ergonomic grip for user comfort
- Built-in dual-laser allows for better and more accurate targeting
- Relative humidity range of 0-90%RH
- Powered by 9 V battery (supplied) and comes with a convenient carry case for safe storage

MODEL	RS-8861
Measurement Range	-50°C to +550°C
Best Accuracy	±1 °C
Distance to Spot Ratio	12:01
Emissivity	0.1 → 1
Resolution	0.1 °C
Response Time	150 ms

RS-8861 INFRARED THERMOMETER	193-8691

RS-8863B INFRARED THERMOMETER WITH DUAL LASER POINT

The RS-8863B infrared temperature detector is that same as the 8861 version but with a higher maximum temperature measurement and quicker response time.

This non-invasive and non-contact method of temperature measurement removes the issue of having to rely on using a physical contact on the item to get a reading from it, making it ideal for use in industrial environments like steelworks, oil and chemical production and environmental testing.

FEATURES & BENEFITS

- Ergonomic grip for user comfort
- Built-in dual-laser allows for better and more accurate targeting
- Relative humidity range of 0-90%RH
- Powered by 9 V battery (supplied) and comes with a convenient carry case for safe storage

MODEL	RS-8863B
Measurement Range	-50°C to +800°C
Distance to Spot Ratio	20:01
Best Accuracy	±1 °C, ±1.8 °F
Emissivity	0.1 → 1
Resolution	0.1 (Upto 1000) °, 1 (Over 1000) °
Response Time	<150ms
Dimensions	104 × 43 × 146mm; 163g

RS-8863B INFRARED THERMOMETER	193-8693

RS-8806S MEDICAL NON-CONTACT INFRARED THERMOMETER

The RS-8806S medical infrared (IR) thermometer is designed as a handheld device to detect body temperature using a non-contact method of measurement. It also measures the surface temperature of objects and the non-invasive and non-contact method of measurement removes the issue of having to rely on using a physical contact on the person or surface to get a reading from it, making it ideal for use in environments like hospitals, other medical and healthcare environments and more. This IR laser temperature detector provides fast sampling with high accuracy, making it an incredibly useful and versatile tool across a range of applications.environments

FEATURES & BENEFITS

- Ergonomic grip for user comfort
- Built-in dual-laser allows for better and more accurate targeting
- LCD display with backlight
- Powered by 2 × AAA batteries and weighs just over 125 g, making the unit super compact and lighweight

MODEL	RS-8806S
Measurement Range	+32°C to +60°C
Suitable for Body Measurement	Yes
Best Accuracy	±0.3°C
Distance to Spot Ratio	06:01, 08:01
Dimensions	128 × 74 × 36mm; 125.4g

RS-8806S MEDICAL INFRARED THERMOMETER	201-0210

ENVIRONMENTAL TEMPERATURE MEASUREMENT

RS50 SERIES DIGITAL THERMOMETERS

The RS350 series have an easy to read LCD display and optional measurement preference. The choice of data loggers can be based on many factors. RS PRO 51 offers a large display count of up to 1999.

They also benefit from having a real-time stamp feature for minimum, maximum and average measurements. Our unique range of hand held thermometers offer you the choice of calibration types and temperature measuring preference to suit your needs at affordable prices.

COMMON INFORMATION

- Two Type K bead thermocouples supplied
- Reading hold function
- Dual thermocouple input
- Differential temperature (T1-T2)

Note

The values given indicate the specified model's total capability. All figures are dependent upon the thermocouple type being used. See the technical specifications for further information.

SPECIFICATIONS / RANGES / MODEL	RS51 123-3215	RS52 123-3216	RS53 123-3217	RS55 123-3218
Temperature Inputs	1	2	1	2
Absolute Maximum Temperature Measurement	+1300°C, +1999°F	+1300°C, +1999°F	+1372°C, +2501°F	+1372°C, +2501°F
Thermometer Type	Handheld	Handheld	Handheld	Handheld
Best Accuracy	±0.3 %	±0.3 %	±0.1 %	±0.1 %
Probe Type	K	K	J, K	J, K
Data Storage	Yes	Yes	Yes	Yes
Resolution	0.1°C, 0.2°F	0.1°C, 0.2°F	0.1 K, 0.1°C, 0.2°F	0.1 K, 0.1°C, 0.2°F
Min/Max Recordings	Yes	Yes	Yes	Yes
Temperature Scale	Centigrade, Fahrenheit	Centigrade, Fahrenheit	Centigrade, Fahrenheit	
Battery Type	9V Alkaline	9V Alkaline	9V Alkaline	9V Alkaline
Dimensions	74 × 39 × 170mm	74 × 39 × 170mm	74 × 39 × 170mm	74 × 39 × 170mm
Weight	430g	430g	430g	430g
Supplied with	Protective holster with stand, belt clip, PP3 battery and instruction manual	Protective holster with stand, belt clip, PP3 battery and instruction manual	Protective holster with stand, belt clip, PP3 battery and instruction manual	Protective holster with stand, belt clip, PP3 battery and instruction manual

RS CAL

UKAS - ILAC

INFRARED THERMOMETER WITH PROBE

This RS IR 95 thermometer combines non-contact infrared thermometer with a probe. It can measure both the surface and inside temperature of an object.

MODEL	RS IR 95
Absolute Maximum Temperature Measurement	+280°C
Temperature Scale	Centigrade
Absolute Minimum Temperature Measurement	-20°C
Distance to Spot Ratio	4:1

INFRARED THERMOMETER	155-8898

RS-325A DIGITAL THERMOHYGROMETER

Desktop or wall type temperature and humidity meter, with high precision and quality digital sensor (14-bit resolution temperature,12-bit resolution humidity).

MODEL	195-9129
Resolution	0.1°C (Temp), 0.1%RH (Humidity)
Accuracy	±4 %RH
Functions	Measuring
Battery Type	1.5V AA

RS-325A DIGITAL THERMOHYGROMETER	195-9129

TA298 THERMOHYGROMETER

Accurate measurement of temperature and humidity, suitable for use both indoors and outdoors. The TA298 features a sleek and stylish design with a 66 × 92mm digital LCD display screen to simultaneously monitor indoor/outdoor temperature and humidity with ease, accompanied by a user-friendly interface allowing the settings and program to be adjusted with ease

- Celsius/Fahrenheit switch option display
- Maximum and minimum memory function
- Temperature range of 0 → 50°C (indoor) and -40 → 70°C (outdoor)

TA298 THERMOHYGROMETER	196-8736

1160 & 1161 THERMO / HYGRO / BAROMETERS WITH AUTO DATA LOGGER

Triple tier LCD displays combined barometric pressure, temperature and relative humidity.

Other readings consist of: dew point, wet bulb temperature, absolute humidity, mixing ratio, enthalpy, water vapour and saturation pressure, barometric pressure trend and tendency, heat index and humidex.

COMMON INFORMATION

- Comparator function
- Alarm
- Auto power-off
- Manual data memory and read
- Auto data logger

Weight:
178g

Power Source:
NEDA 1604, 006P 9V battery

Battery Life:
2 months

MODEL	1160	1161
Absolute Maximum Temperature Measurement	+100°C, +212°F	+100°C, +212°F
Maximum Humidity Measurement	100%RH	100%RH
Best Temperature Measurement Accuracy	±0.4°C, ±0.8°F	±0.4°C, ±0.8°F
Temperature Measurement Resolution	0.1°C, 0.1°F	0.1°C, 0.1°F

MODEL	1160	1161
Best Humidity Measurement Accuracy	±3 %RH	±3 %RH
Humidity Measurement Resolution	0.1%RH	0.1%RH
Meter Type	Handheld	Handheld
Interface Type	USB	USB
Operating Temperature Range	0°C - +60°C	0°C - +60°C

1160 THERMO / HYGRO / BAROMETER	127-8296
1161 THERMO / HYGRO / BAROMETER WITH AUTO DATA LOGGER	127-8297

RS1260 DIGITAL HUMIDITY METER

RS1260 is a great value digital humidity meter with features not normally available at this price.

Features and Benefits

- Dual LCD display
- Dew point reading
- Wet bulb reading
- Max/Min with time stamp

RS1260 DIGITAL HUMIDITY METER	123-2210

RS1362 TRIPLE INPUT PRINTING THERMOHYGROMETER

RS1362 is a great value, feature-rich 3-input printing thermohygrometer. It has a triple LCD display for % RH, T1 for air temperature and T2 for type K thermocouple input temperature. It can print on demand or at pre-set time intervals.

Features and Benefits

- Dew point reading
- MAX/MIN and Data Hold
- Real time stamp
- °C/°F selectable
- 193 × 74 × 37mm
- Weight 430g

1362 TRIPLE INPUT PRINTING THERMOHYGROMETER	123-2232

ENVIRONMENTAL MOISTURE METERS

RS-120 MOISTURE METER

- Dual backlit LCD digital display of moisture & temperature
- Readings with Integral electrod Pins
- User selectable Wood moisture, Building material moisture, oC, oF
- Auto power off

Size & Weight:
96 × 40 × 20mm: 83g

Power Source:
4× LRAA Battery

MODEL	146-9080
Maximum Measurement	0.2 → 2%, 6 → 44%
Best Accuracy	±0.2%, ±2%
Display Type	Digital
Battery Type	LRAA x 4
Operating Temperature Range	0°C - +40°C

RS-120 MOISTURE METER	146-9080

RS-125 MOISTURE METER

RS PRO Moisture meter which measures moisture content in wood and construction material.

Used to measure the moisture level in sawn timber (also cardboard, paper) and hardened materials (plaster, concrete and mortar). It displays the moisture level in the material straight away.

- Auto Power Off
- Battery Check function
- Replaceable Pins
- Auto Power On
- Confirms to CE, EMC, EN: 61326

Size & Weight:
140 × 48 × 33mm: 93g

Power Source:
3× CR2032 battery

MODEL	146-9081
Maximum Measurement	0.2 → 2 (Building Material) %, 6 → 44 (Wood) %
Best Accuracy	±0.05 (Materials) %, ±1 (Wood) %
Display Type	Analogue
Scale Type	Building Materials, Wood
Battery Type	CR 2032 × 3
Minimum Operating Temperature	0°C

RS-125 MOISTURE METER	146-9081

DT-128M MOISTURE METER

Non-invasive measurement. Monitor moisture in wood and other building materials with virtually no surface damage

- Relative Pin-less moisture reading for non-invasive measurement from 0.0 to 100.0% with 0.1 resolution
- Multifunction backlit triple LCD display
- Pin-less measurement depth from 0.78" (20mm) to 1.6" (40mm) below the surface

- High frequency sensing technology
- Automatic Data Hold
- Two adjustable alarm levels with audible beeper and visual (flashing "RISK" or "WET") indicators
- Automatic calibration (in dry air) when meter is powered on

Size & Weight:
242 × 63 × 30mm: 226g

Power Source:
AAA battery

MODEL	146-9082
Maximum Measurement	100%
Display Type	Digital

DT-128M MOISTURE METER	146-9082

ENVIRONMENTAL PRESSURE METERS

DIFFERENTIAL PRESSURE MANOMETERS

The device measures Gauge/Differential Pressure, it features 11 selectable units of measurement: inH2O, psi, bar, mbar, kPa , inHg ,mmHg ,ozin,ftH2O, cmH2O, kgcm. Additional features including Data Hold, Auto Power Off disabled, and an USB for capturing reading to a PC using optional software.

Careful use of this meter will provide years of reliable service. DT-8890B measures Differential Pressure from –20Pa - 20Pa and connect to the printer GPT-4379 with USB interface. DT-8890C measures Gauge/Differential Pressure from -13.86 inH2O - 13.86 inH2O (0.30 psi).

RS CAL

MODEL	RS-8890
Best Accuracy	±0.3 %
Number of Pressure Ports	2
Maximum Pressure Measurement	0.137 bar, 0.14 kgcm², 2 psi, 4.072 inHg, 4.612 ftH2O, 13.79 kPa, 32 ozin², 55.4 inH2O, 103.4mmHg, 137.8 psi, 140.6 cmH2O
Minimum Pressure Measurement	-2psi
Minimum/Maximum Recordings	Yes
Minimum/Maximum Recordings	120 × 160 pixel
Battery Type	9V
Display Type	LCD

RS-8890	144-5336

DPI HANDHELD PRESSURE INDICATORS

The RS PRO DPI Series of handheld pressure indicators combine tough and rugged design with accurate and reliable pressure measurement.

Compact, robust and lightweight, the RS PRO DPI is designed for single handed operation and provides many essential features required for routine maintenance and system troubleshooting.

SPECIFICATIONS / RANGES / MODEL	70MBAR 146-7717	350MBAR 146-7718	1BAR 146-7719	7BAR 146-7720	10BAR 146-7721	20BAR 146-7722	700BAR 146-7723
Best Accuracy	±0.1 %	±0.1 %	±0.1 %	±0.1 %	±0.1 %	±0.1 %	±0.1 %
Number of Pressure Ports	1	1	1	1	1	1	1
Maximum Pressure Measurement	70mbar	350mbar	1bar	7bar	10bar	20bar	700bar
Distance to Spot Ratio	0mbar	0mbar	0mbar	0mbar	0mbar	0mbar	0mbar
Pressure Port Type	Differential	Differential	Differential	Gauga	Absolute	Gauge	Absolute
Leak Testing	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Minimum/Maximum Recordings	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Intrinsically Safe	Yes	Yes	Yes	Yes	Yes	Yes	Yes

ULTRASONIC CLEANERS

ULTRASONIC CLEANER 10L	**183-7513**
ULTRASONIC CLEANER 36L	**179-7571**
DIGITAL ULTRASONIC CLEANER 600 ML	**136-8566**
ULTRASONIC CLEANING TANK 2L	**124-9721**
ULTRASONIC CLEANING TANK 3L	**855-5911**
ULTRASONIC CLEANING TANK 6L	**855-5915**
ULTRASONIC CLEANING TANK 9L	**124-9722**
ULTRASONIC CLEANING TANK 27L	**124-9723**

ULTRASONIC CLEANING ACCESSORIES
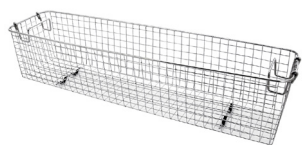
Features and Benefits
- Durable lightweight mesh design, allowing delicate items to be safely placed inside and cleaned
- Handles to allow the basket to be suspended, helping to protect the transducers of the tank and the items inside
- Available in a range of sizes to accommodate a variety of tanks
- Helps to facilitate a gentler clean
- Mesh design helps to minimise and reduce ultrasonic hotspots during the cleaning process
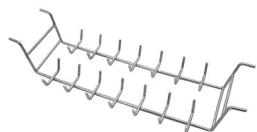
ULTRASONIC CLEANING BASKET FOR 2L TANK	**183-7515**
ULTRASONIC CLEANING BASKET FOR 3L TANK	**183-7516**
ULTRASONIC CLEANING BASKET FOR 6L TANK	**183-7517**
ULTRASONIC CLEANING BASKET FOR 9L TANK	**183-7518**
ULTRASONIC CLEANING BASKET FOR 10L TANK	**183-7514**
ULTRASONIC CLEANING BASKET FOR 27L TANK	**183-7519**
ULTRASONIC CLEANING BASKET FOR 36L TANK	**183-7520**
ULTRASONIC CLEANING RING RACK FOR 3L TANK	**183-7521**
ULTRASONIC CLEANING RING RACK FOR 6L TANK	**184-0726**
ULTRASONIC CLEANING BEAKER BASKET FOR 3L	**183-7523**
ULTRASONIC CLEANING BEAKER BASKET FOR 6L	**183-7524**

LAB EQUIPMENT MAGNETIC STIRRERS AND BEAKERS

MAGNETIC STIRRERS

RS PRO HOT STIRRER, 700W, ALUMINIUM, SILICON ALLOY	490-1036
CERAMIC MAGNETIC STIRRER+HEATING	202-0777
MINI PLASTIC MAGNETIC STIRRER	202-0778

BEAKERS

RS PRO BEAKER	263-2564
RS PRO BEAKER	263-2570
RS PRO BEAKER	263-2586
RS PRO PP 25ML BEAKER	461-0128
RS PRO PP 50ML BEAKER	461-0134
RS PRO PP 100ML BEAKER	461-0140
RS PRO PP 250ML BEAKER	461-0156
RS PRO PP 500ML BEAKER	461-0162
RS PRO PP 1L BEAKER	461-0184
RS PRO PP 2L BEAKER	461-0190
RS PRO PP 100ML BEAKER	478-1602
RS PRO PP 250ML BEAKER	478-1618
RS PRO PP 500ML BEAKER	478-1624
RS PRO PP 1L BEAKER	478-1630
RS PRO PP 2L BEAKER	478-1646
RS PRO PP 3L BEAKER	478-1652

BOROSILICATE GLASS BEAKERS

RS PRO BOROSILICATE GLASS 50ML BEAKER	461-1086
RS PRO BOROSILICATE GLASS 100ML BEAKER	461-1092
RS PRO BOROSILICATE GLASS 150ML BEAKER	461-1109
RS PRO BOROSILICATE GLASS 250ML BEAKER	461-1115
RS PRO BOROSILICATE GLASS 400ML BEAKER	461-1121
RS PRO BOROSILICATE GLASS 600ML BEAKER	461-1137

PIPETTES

3ML PIPETTE, 138MM, GRADUATED TO 1ML	PACK OF 5	179-3678
3ML PIPETTE, 138MM, GRADUATED TO 1ML	PACK OF 10	179-3679
3ML PIPETTE, 138MM, GRADUATED TO 1ML, NON-STERILE	PACK OF 10	179-3677
3ML PIPETTE, 138MM, GRADUATED TO 1ML	PACK OF 20	179-3681
5ML PIPETTE, 150MM, GRADUATED TO 1ML, EO	PACK OF 5	179-3651
5ML PIPETTE, 150MM, GRADUATED TO 1ML, EO	PACK OF 10	179-3653
5ML PIPETTE, 150MM, GRADUATED TO 1ML, NON-STERILE	PACK OF 10	179-3650
5ML PIPETTE, 150MM, GRADUATED TO 1ML, EO	PACK OF 20	179-3654
5ML PIPETTE, 155MM, GRADUATED TO 2ML	PACK OF 10	179-3670
5ML PIPETTE, 155MM, GRADUATED TO 2ML, NON-STERILE	PACK OF 10	179-3667
5ML PIPETTE, 155MM, GRADUATED TO 2ML	PACK OF 20	179-3671
5ML PIPETTE, 155MM, GRADUATED TO 2ML	PACK OF 5	179-3669
5ML PIPETTE, 160MM, GRADUATED TO 1ML	PACK OF 10	179-3659
5ML PIPETTE, 160MM, GRADUATED TO 1ML	PACK OF 10	179-3661
5ML PIPETTE, 160MM, GRADUATED TO 1ML	PACK OF 20	179-3662
5ML PIPETTE, 160MM, GRADUATED TO 1ML	PACK OF 5	179-3660
6ML PIPETTE, 155MM, GRADUATED TO 1.5ML	PACK OF 10	179-3675
6ML PIPETTE, 155MM, GRADUATED TO 1.5ML, NON-STERILE	PACK OF 10	179-3672
6ML PIPETTE, 155MM, GRADUATED TO 1.5ML	PACK OF 20	179-3676
6ML PIPETTE, 155MM, GRADUATED TO 1.5ML	PACK OF 5	179-3673
7ML PIPETTE, 160MM, GRADUATED TO 3ML	PACK OF 10	179-3665
7ML PIPETTE, 160MM, GRADUATED TO 3ML, NON-STERILE	PACK OF 10	179-3663
7ML PIPETTE, 160MM, GRADUATED TO 3ML	PACK OF 10	179-3655
7ML PIPETTE, 160MM, GRADUATED TO 3ML	PACK OF 10	179-3657
7ML PIPETTE, 160MM, GRADUATED TO 3ML	PACK OF 20	179-3666
7ML PIPETTE, 160MM, GRADUATED TO 3ML	PACK OF 20	179-3658
7ML PIPETTE, 160MM, GRADUATED TO 3ML	PACK OF 5	179-3664
7ML PIPETTE, 160MM, GRADUATED TO 3ML	PACK OF 5	179-3656

Features and Benefits
- These squeezable pipettes are widely recycled non-toxic material, making them environmentally friendly
- Safe for pipetting liquids and foods
- Ultra-light and ergonomic design is also convenient for transferring liquids without the risk of contamination
- Clear readable measurement markings in ml (milliliters) to ensure greater accuracy
- Cost-effective solution to more expensive glass or electronic measuring pipettes, whilst also eliminating the need for calibration cost

CENTRIFUGE TUBES

This range of high-quality Laboratory Bottles have a leakproof lid and conical bottom. They are ideal for small volume samples and storage and are a re-useable, cost-effective solution to more expensive glass alternatives. These lab bottles are heavy duty and durable enough for laboratory use or other applications like household storage for items like crafting supplies, etc.

15ML, CENTRIFUGE TUBES, CONICAL-BOTTOM, PP	PACK OF 50	181-2504
15ML, CENTRIFUGE TUBES, CONICAL-BOTTOM, PP	PACK OF 50	181-2505
50ML, CENTRIFUGE TUBE, CONICAL-BOTTOM, PP	PACK OF 25	181-2502
50ML, CENTRIFUGE TUBE, CONICAL-BOTTOM, PP	PACK OF 25	181-2503

SPECIMEN CONTAINERS

These plastic laboratory bottles are ideal for small volume samples and storage and are a re-useable, cost-effective solution to more expensive glass alternatives. They are heavy duty and durable enough for laboratory use or other applications like household storage for items like crafting supplies, etc.

Features and Benefits

- The bottles are manufactured from virgin polystyrene (PS) and polypropylene (PP) allowing for durability and heavy-duty use
- All materials are noncytotoxic and therefore do not react with biological samples
- These bottles are suited for in vitro use only
- Smooth inner contours for efficient pouring and ease of cleaning
- Ideal for a wide range of liquid storage, media preparation and sampling applications
- Clear scale, facilitates accurate sampling

7ML, SPECIMEN CONTAINERS, SCREW CAP,NO LABEL, PS/ PP	179-3682
7ML, SPECIMEN CONTAINERS, SCREW CAP,NO LABEL, PP/PP	179-3683
60ML, LABORATORY BOTTLE, METAL FLOWED SEAL INSERT CAP, PS	179-3684
100ML, LABORATORY BOTTLE, METAL FLOWED SEAL INSERT CAP, PS	179-3685
150ML, LABORATORY BOTTLE, METAL FLOWED SEAL INSERT CAP, PS	179-3686
250ML, LABORATORY BOTTLE, METAL FLOWED SEAL INSERT CAP, PS	179-3687
60ML, UNIVERSAL, SPECIMEN CONTAINER, SCREW CAP, NO LABEL, PS / PE	179-3688
60ML, UNIVERSAL, SPECIMEN CONTAINER, SCREW CAP, PRINTED LABEL, PS / PE	179-3689
90ML, SPECIMEN CONTAINER, SECURITY LABEL, MOLDED-GRAD, PP	179-3690
120ML, SPECIMEN CONTAINER, SECURITY LABEL, MOLDED-GRAD, PP	179-3691
20ML, HISTOLOGY SPECIMEN CONTAINER, PP	179-3692
40ML, HISTOLOGY SPECIMEN CONTAINER, PP	179-3693
60ML, HISTOLOGY SPECIMEN CONTAINER, PP	179-3694
90ML, HISTOLOGY SPECIMEN CONTAINER, PP	179-3695
250ML, HISTOLOGY SPECIMEN CONTAINER, PP	179-3697
500ML, HISTOLOGY SPECIMEN CONTAINER, PP	179-3698
50ML, CENTRIFUGE TUBE, CONICAL-BOTTOM, PP TUBE	179-3700
50ML, CENTRIFUGE TUBE, CONICAL-BOTTOM, PP TUBE	179-3701
15ML, CONICAL-BOTTOM CENTRIFUGE PP TUBES	179-3704
15ML, CONICAL-BOTTOM CENTRIFUGE PP TUBES, GRADUATED	179-3705

MICRO TUBE STORAGE RACKS & BOXES

A versatile storage system for vials, tubes and micro tubes. These interlocking racks & boxes are made using durable polypropylene, ensuring a sturdy construction with a range of tabs and slots to suit a variety of applications. The boxes can be stacked together, with an alphanumeric grid on the lid for easy identification of tubes. These test tube boxes feature high walls with air vents and are also suitable for autoclaving at 121°C, providing a unique rack system suitable for a range of applications.

Features and Benefits

- Heavy-duty polypropylene design, providing a sturdy construction
- Colour coding to easily identify the required size
- Suitable for a range of applications
- Various sized tabs and slots to accommodate for a range of tubes
- Can be linked together to create a custom size rack system
- Suitable for autoclaving at 121°C
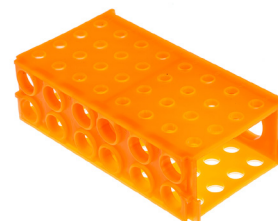
4-WAY MICRO TUBE RACK, PACK OF 5	179-3708
COMPACT MICROTUBE STORAGE BOX FOR UP TO 2ML TUBES, 10X10, AIR VENTS	179-3709

RS PRO products are audited against demanding international standards, inspected for durability and consistency and tested by leading engineers.

Only when products have been through this process are they awarded our seal of approval, quality that can be trusted. Confidence in this process is reflected in our long product warranties, proof that our products will consistently deliver the quality you expect for a long time to come.

AUDITED
In compliance with industry standards

INSPECTED
By leading engineers

TESTED
For guaranteed quality and performance

RS PRO APPROVED

WARRANTY 3 YEARS

RS PRO

rspro.com