PATENTED TECHNOLOGY!

GENERAL

K

44.6   44.5
44.7   44.8
44.8   44.7
44.6   44.5
°C

POWER ESC   HOLD NEXT   REC ENTER

Offset

TYPE ▲   PAGE ▼   LOGGER

Sampling time

SET

Time check

12 Channels   SD Card Data Logger
TEMPERATURE RECORDER

GENERAL   DT4208SD

ANEMOMETER VANE PROBE

Precision, Specialty and Innovation

Contents

GENERAL®

Anemometer-Thermometer
with Excel-Formatted Data Logging SD Card

Accurately Measures Air (Wind) Speed and Temperature

Applications:

- Commercial/industrial ventilation
- Energy audits
- HVAC/R installations
- Paint spray booths

Industrial Vent

Energy Auditing

No. DAF4207SD

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

GENERAL®

Anemometer-Thermometer
with Excel-Formatted Data Logging SD Card

Features:

- Includes combination air speed-temperature probe
- Displays air (wind) speed in meters/second, feet per minute, kilometers/hr, knots (nautical miles per hour), or miles per hour
- Displays temperature in °F or °C
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

No. DAF4207SD

Included Accessories:

- Hard carrying case
- Combination air-speed temperature probe (General P/N P4207SD)
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- "K" Type thermocouples
     General P/N TPK500 (-50° to 500°F)
     General P/N TPK05 (-40° to 562°F)
     General P/N TPK03 (-40° to 950°F)
- SDRD1 - SD Card Reader

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Air speed, temperature

Measurement Range:
- For air speed: 0.4 to 30 m/sec, 1.4 to 126 km/hr, 0.9 to 78.3 mph, 0.8 to 68 knots, 79 to 6890 ft/min
- For temperature: 32° to 122°F (0° to 50°C)

Measurement Accuracy:
- For air speed: ± (2% + 0.2 m/sec), ± (2% + 0.8 km/hr), ± (2% + 0.4 mph), ± (2% + 0.4 knots), ± (2% + 40 ft/min)
- For temperature: ± 1.5°F (± 0.8°C)

Measurement Resolution:
- For air speed: 0.1 m/sec, 0.1 km/hr, 0.1 mph, 0.1 knots, 1.0 ft/min
- For temperature: 0.1°F or C

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, air speed unit, optional thermocouple type (K or J)

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1GB to 16GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption
- 15 mADC (normal operation, with backlight off and SD card not saving data)
- 36 mADC with backlight on and card saving data
- 48 mADC with backlight on and card saving data

Dimensions of Instrument:
7.99 x 2.99 x 1.50 in. (203 x 76 x 38mm)

Weight of Instrument: 1.13 lb. (515g)

Diameter of Probe Head: 2.83 in. (72mm)

Power Source:
Six "AA" batteries or optional 9-VDC AC adapter

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GENERAL®

Hot Wire Anemometer-Thermometer
with Excel-Formatted Data Logging SD Card

Accurately Measures Air (Wind) Speeds As Low As 0.5 mph and Air Temperatures within ±1.5°F (± 0.8°C)

No. HWA4214SD

Applications:

- Environmental testing
- Maintenance and repair of air conveyors and flow hoods in clean rooms
- Calibrating low-speed fans and blowers
- Balancing velocity profiles in furnaces and refrigerated cases
- Precision calibration of HVAC/R systems

Minimally Invasive Duct Leak Testing

Calibrating HVAC Systems

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

Features:

- Includes telescoping air speed-temperature probe
- Displays air (wind) speed in meters/second, feet per minute, kilometers/hr, knots (nautical miles per hour), or miles per hour
- Measures air speeds down to 0.2 m/sec with 0.01 m/sec resolution (down to 40 ft/min with 1 ft/min resolution)
- Displays temperature in °F or °C
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

Included Accessories:

- Hard carrying case
- Telescoping air speed/ temperature probe (General P/N P4214SD)
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- "K" Type thermocouples
    General P/N TPK500 (-50° to 500°F)
    General P/N TPK05 (-40° to 562°F)
    General P/N TPK03 (-40° to 950°F)
- SDRD1 - SD Card Reader

No. HWA4214SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Air speed, temperature

Measurement Range:
- For air speed: 0.2 to 25 m/sec, 0.7 to 172 km/hr, 0.5 to 44.7 mph, 0.4 to 38.8 knots, 40 to 3940 ft/min
- For temperature: 32° to 122°F (0° to 50°C)

Measurement Accuracy:
- For air speed: ± (5% + 0.1 m/sec), ± (5% + 0.3 km/hr), ± (5% + 0.2 mph), ± (5% + 0.2 knots), ± (5% + 20 ft/min)
- For temperature: ± 1.5°F (± 0.8°C)

Measurement Resolution:
- For air speed: 0.01 m/sec (0.2 to 5.0 m/sec), 0.1 m/sec (5.1 to 25.0 m/sec); 0.01 km/hr (0.7 to 18 km/hr), 0.1 km/hr (18 to 72 km/hr); 0.01 mph (0.5 to 11.20 mph), 0.1 mph (11.2 to 44.7 mph); 0.01 knot (0.4 to 9.7 knots), 0.1 knot (9.7 to 38.8 knots); 1 ft/min (40 to 3940 ft/min)
- For temperature: 0.1° F or C

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, air speed unit, optional thermocouple type (K or J)

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 30 mADC (normal operation, with backlight off and SD card not saving data)
- 50 mADC (with backlight on and card saving data)

Dimensions of Instrument: 7.99 x 2.99 x 1.50 in. (203 x 76 x 38mm)

Weight of Instrument: 1.13 lb. (515g)

Dimensions of Probe: 0.4724 in. (diameter) x 11.02 in.(collapsed)/37 in.(extended) (12mm x 280mm/940mm)

Power Source: Six "AA" batteries or optional 9-VDC AC adapter

GENERAL®

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Environment Meter
with Excel-Formatted Data Logging SD Card

Accurately Measures Air (Wind) Speed + Temperature, Air Temperature + Humidity, Light & Sound Levels, Surface Temperature

Applications:

- Facilities management
- Environment control
- OSHA compliance

No. DLAF930SD

Facilities Management

Environment Control

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

Features:

- Multi-function probe measures air speed and temperature, air temperature and humidity, and light level. Optional accessories measure surface temperature and sound level
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from 1 second to 1 hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

Included Accessories:

- Hard carrying case
- Combination temperature/humidity/air speed/light level probe (General P/N P930SD)
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- "K" Type thermocouples
  General P/N TPK500 (-50° to 500°F)
  General P/N TPK05 (-40° to 562°F)
  General P/N TPK03 (-40° to 950°F)
- Sound level probe/plug adapter (General P/N SC941)
- SDRD1 - SD Card Reader

No. DLAF930SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Air temperature, relative humidity (R.H.), air speed, light level

Measurement Range:
- For air speed: 0.4 to 25 m/sec, 1.4 to 90 km/hr, 0.9 to 55.9 mph, 0.8 to 48.6 knots, 80 to 4930 ft/min
- For temperature: 32° to 122°F (0 to 50°C); for R.H., 10 to 95%
- For light level: 0 to 20,000 lux, 0 to 1860 ft-cd

Measurement Accuracy:
- For air speed: ± (2% + 0.2 m/sec), ± (2% + 0.8 km/hr), ± (2% + 0.4 mph), ± (2% + 0.4 knots), ± (2% + 40 ft/min)
- For temperature: 1.5°F (± 0.8°C)
- For humidity: ± (3% of reading + 1%) for R.H. values ≥70%; ± 3% of reading for R.H values < 70%
- For light level: ± (5% of reading ± 8 digits)

Measurement Resolution:
- For air speed: 0.1 m/sec, 0.1 km/hr, 0.1 mph, 0.1 knots, 1.0 ft/min
- For temperature: 0.1 °F or °C
- For humidity: 0.1% of reading
- For light level: 1 lux, 0.1 ft-cd

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, air speed unit, light level unit, optional thermocouple type (K or J)

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 3.5 mADC (normal operation, with backlight off and SD card not saving data)
- 28 mADC with backlight on and card saving data
- 40 mADC with backlight on and card saving data

Dimensions of Meter: 5.31 x 2.36 x 1.30 in. (135 x 60 x 33mm)

Weight of Meter: 1.13 lb. (515g)

Dimensions of Probe: 4.13 x 1.81 x 1.14 in. (105 x 46 x 29mm)

Power Source:
Six "AA" batteries or optional 9-VDC AC adapter

GENERAL®

GENERAL®

Class 2 Sound Level Meter
with Excel-Formatted Data Logging SD Card

Accurately Measures Sound Levels of Machinery or an Environment with 0.1 dB Resolution

No. DSM402SD

Applications:

- Noise pollution control
- OSHA noise regulatory compliance
- Acoustics design

Noise Pollution Control

Acoustics Design

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

Class 2 Sound Level Meter
with Excel-Formatted Data Logging SD Card

Features:

- Measures sound levels of machinery or an environment
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Makes measurements in auto ranging mode or within a manually settable range
- Displays maximum and minimum readings and holds any reading
- Performs automatic data logging at sampling time settable from 1 second to 9 hours
- Also supports manual logging and changing of card storage location
- Auto power off function

Included Accessories:

- Hard carrying case
- Sound wind shield ball
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- SDRD1 - SD Card Reader

No. DSM402SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38 mm)

Parameter Measured: dB

Frequency Range: 31.5 Hz to 8 kHz

Measurement Range:
- 30 to 130 dB in auto ranging mode
- User can also select fixed range of 30 to 80 dB, 50 to 100 dB, or 80 to 130 dB

Measurement Weighting:
- By frequency: frequency weighing uses "A" or "C" standard
- By time: time weighting is fast or slow (200 ms or 500 ms response time)

Measurement Accuracy:
- With "A" frequency weighting: ± 3.5 dB @ 31.5 Hz, 2. 5 dB @ 63 Hz, 2 dB @ 125 Hz, 1.9 dB @ 250 Hz, 1.9 dB @ 500 Hz, 1.4 dB @ 1 kHz, 2.6 dB @ 2 kHz, 3.6 dB @ 4 kHz, 5.6 dB @ 8 kHz

Measurement Resolution: 0.1 dB

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, "A" or "C" frequency weighting, fast or slow time weighting

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 8 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on and card saving data
- 44 mADC with backlight on and card saving data

Dimensions of Meter:
9.65 x 2.68 x 1.77 in. (245 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Power Source:
Six "AA" batteries or optional 9-VDC AC adapter

GENERAL®

Class 1 Sound Level Meter
with Excel-Formatted Data Logging SD Card

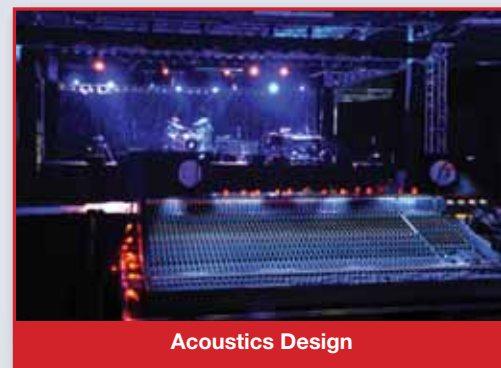## Accurately Measures Sound Levels of Machinery or an Environment with 0.1 dB Resolution

Applications:
- Acoustics design
- Sound system setup
- OSHA compliance

52.0 dB FAST AUTO

No. DSM403SD

SOUND LEVEL METER DSM403SD

Acoustics Design

Sound System Setup

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

	A	B	C	D	E
	Place	Date	Time	Value	Unit
1					
2	1	2009/10/16	16:47:05	60.8	dB
3	2	2009/10/16	16:47:07	66.9	dB
4	3	2009/10/16	16:47:09	68.8	dB
5	4	2009/10/16	16:47:11	71	dB
6	5	2009/10/16	16:47:13	82.3	dB
7	6	2009/10/16	16:47:15	92.3	dB
8	7	2009/10/16	16:47:17	93.1	dB
9	8	2009/10/16	16:47:19	93.1	dB
10	9	2009/10/16	16:47:21	89.8	dB
11	10	2009/10/16	16:47:23	90.2	dB

Typical Excel Data

Typical Excel Plotted Data

GENERAL®

Class 1 Sound Level Meter
with Excel-Formatted Data Logging SD Card

Features:

- Measures sound levels of machinery or an environment
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Makes measurements in auto ranging mode or within a manually settable range
- Displays maximum and minimum readings and holds any reading
- Performs automatic data logging at sampling time settable from 1 second to 9 hours
- Also supports manual logging and changing of card storage location
- Auto power off function

Included Accessories:

- Hard carrying case
- Sound wind shield ball
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- SDRD1 - SD Card Reader

No. DSM403SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameter Measured: dB

Frequency Range: 31.5 Hz to 16 kHz

Measurement Range:
- 30 to 130 dB in auto ranging mode
- User can also select fixed range of 30 to 80 dB, 50 to 100 dB, or 80 to 130 dB

Measurement Weighting:
- By frequency: using Class I IEC 61672 standard; frequency weighing uses "A" or "C" standard
- By time: using Class 1 IEC 61672 standard; time weighting is fast or slow (200 ms or 500 ms response time)

Measurement Accuracy:
- With "A" frequency weighting: ± 2.0 dB @ 31.5 Hz, 1.5 dB @ 63 Hz, 1.5 dB @ 125 Hz, 1.4 dB @ 250 Hz, 1.4 dB @ 500 Hz, 1.1 dB @ 1 kHz, 1.6 dB @ 2 kHz, 1.6 dB @ 4 kHz, +2.1 dB and -3.1dB @ 8 kHz; +3.0 dB and -6.0 dB @ 12.5 kHz, +3.5 dB and -17.0 dB @ 16 kHz

Measurement Resolution: 0.1 dB

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, "A" or "C" frequency weighting, fast or slow time weighting

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 8 mADC (normal operation, with backlight off and SD card not saving data)
- 14 mADC with backlight on and card saving data
- 44 mADC with backlight on and card saving data

Dimensions of Meter:
9.65 x 2.68 x 1.77 in. (245 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Power Source:
Six "AA" batteries or optional 9-VDC AC adapter

GENERAL®

12

GENERAL®

UVA, UVC Light Meter
with Excel-Formatted Data Logging SD Card

Accurately Measures UVA and UVC Light Intensity within Two Automatically Switched Full-Scale Ranges: 2 mW/cm^2 and 20 mW/cm^2

No. UV254SD

Applications:
- Welding
- UV food sterilization
- Photochemical matching
- Erasing memory chips
- Exposing photoresists
- Curing of inks, adhesives and coatings

Welding

UV Sterilization

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

13

Features:

- Includes UVA and UVC probes
- Measures light intensity within two automatically switched full-scale ranges: 2 mW/cm2 and 20 mW/cm2
- Displays maximum and minimum readings
- Performs real-time automatic data logging at sampling time settable from 1 second to 1 hour
- Also supports manual logging and changing of card storage location
- Comes with 2 GB SD memory card, but works with cards up to 16 GB
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Auto power off function

Included Accessories:

- UVA probe
- UVC probe
- 2 GB SD memory card
- Hard carrying case
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- "K" Type thermocouples
  General P/N TPK500 to 500°F)
  General P/N TPK05 (-40° to 562°F)
  General P/N TPK03 (-40° to 950°F)
- SDRD1 - SD Card Reader

No. UV254SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38 mm)

UV Light Types Measured: UVA, UVC

Measurement Range: 240 nm to 390 nm

Measurement Accuracy: ±4% of full-scale reading + 2 digits

Full-Scale Auto Ranges: $2 mW/cm^2$ and $20 mW/cm^2$

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 1 hour

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, temperature unit (°F or °C), sampling time, thermocouple type (K or J), decimal point or comma

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 6.5 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on

Dimensions of Meter:
6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 12.38 oz. (351 g)

Dimensions of UVA Probe Head:
1.77 in. (diagonal) x 1.26 in. (L) (45 x 32 mm)

Dimensions of UVA Probe Handle:
0.94 in. (diagonal) x 4.92 in. (L) (24 x 125 mm)

Weight of UVA Probe: 3.53 oz. (100g)

Dimensions of UVC Probe:
1.50 (diagonal) x 0.98 in (L) (38 x 25 mm)

Weight of UVC Probe: 3.63 oz. (103g)

Power Source:
Six "AA" batteries or optional 9-VDC AC adapter

GENERAL®

Light Meter
with Excel-Formatted Data Logging SD Card

Accurately Measures Light Intensity in Lux or Foot-Candles Using Three Automatically Switched Full-Scale Ranges

Applications:

- OSHA compliance
- Industrial/commercial photography/videography
- Construction
- Engineering
- Surveillance/security

- The law requires the owner of a loading dock to provide a minimum of 1 foot candle illumination
- Defendant's loading dock fell far below OSHA's minimum lighting requirement
- Defendant violated OSHA's minimum illumination requirement and therefore Defendant's violation is negligent

An OSHA Citation

No. DLM112SD

Industrial Photography

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

GENERAL®

Light Meter
with Excel-Formatted Data Logging SD Card

Features:

- Includes light probe
- Measures light intensity within three automatically switched full-scale ranges: 2,000 lux, 20,000 lux and 100,000 lux (200 ft-cd, 2,000 ft-cd and 10,000 ft-cd)
- Selectable lux or foot-candle units
- Displays maximum and minimum readings
- Performs real-time automatic data logging at sampling time settable from 1 second to 1 hour
- Also supports manual logging and changing of card storage location
- Big (2.5 diagonal) front-panel green backlit LCD is easy to read
- Auto power off function

Included Accessories:

- Hard carrying case
- Light probe with protective cover (General P/N P112SD)
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- "K" Type thermocouples
     General P/N TPK500 (-50° to 500°F)
     General P/N TPK05 (-40° to 562°F)
     General P/N TPK03 (-40° to 950°F)
- SDRD1 - SD Card Reader

No. DLM112SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Full-Scale Ranges:
- 0 to 1,999 lux (0 to 186 ft-cd)
- 1,800 to 19,990 lux (167 to 1,860 ft-cd)
- 18,000 to 99,900 lux (1,670 to 9,290.7 ft-cd)

Measurement Accuracy:
- ± 4% of full-scale reading + 2 digits for all lux readings and ft-cd readings at 200 ft-cd full-scale (f.s.)
- ± 4% of f.s. reading + 2 ft-cd at 2,000 ft-cd f.s.
- ± 4% of f.s. reading + 20 ft-cd at 20,000 ft-cd f.s.

Measurement Resolution:
- 1 lux at 2,000 lux f.s.
- 10 lux at 20,000 lux f.s.
- 100 lux at 100,000 lux f.s.
- 0.1 ft-cd at 200 ft-cd f.s.
- 1 ft-cd at 2,000 ft-cd f.s.
- 10 ft-cd at 10,000 ft-cd f.s.

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 1 hour

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, temperature unit (°F or °C), sampling time, thermocouple type (K or J), decimal point or comma

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 6.5 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on

Dimensions of Meter:
   6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Power Source:
   Six "AA" batteries or optional 9-VDC AC adapter

GENERAL®

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4-Channel Thermometer
with Excel-Formatted Data Logging SD Card

GENERAL®

Accurately Measures 4 Channels of Temperature from -148° to 3092°F (-100° to 1700°C)

No. DT4947SD

Applications:

- Food and chemical processing
- HVAC/R installations
- Power generation
- Paper production

Food Processing

Paper Production

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

4-Channel Thermometer
with Excel-Formatted Data Logging SD Card

GENERAL®

Features:

- Four independent temperature measurement channels
- Also measures T1-T2 difference between two channels
- Works with and automatically temperature-compensates for six popular thermocouple types: K, J, T, E, S and R
- Combining thermocouple types extends overall measurement range to -148° to 3092°F (-100° to 1700°C)
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

Included Accessories:

- Carrying case
- Two "K" Type beaded thermocouple probes
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- Pt 100 ohm RTD (General P/N RTDTP-100)
- Additional "K" Type thermocouples
    General P/N TPK500 (-50° to 500°F)
    General P/N TPK05 (-40° to 562°F)
    General P/N TPK03 (-40° to 950°F)
- SDRD1 - SD Card Reader

No. DT4947SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameter Measured: Temperature (in °F or °C)

Measurement Range:
- For Pt 100 ohm RTD: -327° to 1562°F
- For thermocouples: depends on type

Measurement Accuracy:
- For Pt 100 ohm probes: ± (0.4% of reading + 1.8°F) from -327° to 999.9°F, ± (0.4 % of reading + 2.0°F) from 1000° to 1562°F)
- For thermocouples: ± (0.4% of reading + 2.0°F max)

Measurement Resolution:
- For Pt 100 ohm probes: 0.1° (F or C) from -327° to 999.9°F, 1°F from 1000° to 1562°F
- For thermocouples: 0.1° (F or C) below 1000°F and 1° (F or C) above 1000°F for Types K, J, T and E; 1° (C or F) for Types R and S

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, decimal point or comma decimal division, auto power off, beep sound, temperature unit, sampling time

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 8.5 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on and card saving data
- 44 mADC with backlight on and card saving data

Dimensions of Thermometer:
6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Thermometer: 1.13 lb. (515g)

Power Source:
Six "AA" batteries or optional 9-VDC AC adapter

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12-Channel Temperature Recorder
with Excel-Formatted Data Logging SD Card

Accurately Measures 12 Channels of Temperature from -148° to 3092°F (-100° to 1700°C)

No. DT4208SD

Applications:

• Food and chemical processing
• PC board burn-in
• Paper production
• HVAC/R installations
• Power generation

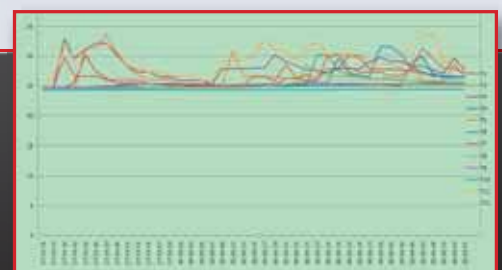**Petrochemical Production**

PC Board Burn-In

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

12-Channel Temperature Recorder
with Excel-Formatted Data Logging SD Card

Features:

- Twelve independent temperature measurement channels
- Displays up to eight channels at a time; one push of a button switches to Channels 9 through 12
- Works with and automatically temperature-compensates for six popular thermocouple types: K, J, T, E, S and R
- Combining thermocouple types extends overall measurement range to -148° to 3092°F (-100° to 1700°C)
- Can automatically log 12 channels of data every day during same period
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

Included Accessories:

- Hard carrying case
- Two "K Type" beaded thermocouple probes
- 2 GB SD memory card
- User's manual

Optional Accessories:

- "K" Type thermocouples
  General P/N TPK500 (-50° to 500°F)
  General P/N TPK05 (-40° to 562°F)
  General P/N TPK03 (-40° to 950°F)
- 9VDC adapter for 110V power supply (General P/N AC1)
- SDRD1 - SD Card Reader

No. DT4208SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameter Measured: Temperature (in °F or °C)

Measurement Range:
- Using included "K" Type thermocouples: -148° to 2372°F (-100° to 1300°C)
- For other thermocouples: depends on type

Measurement Accuracy:
- For included "K" Type thermocouples: ± (0.4 % of reading + 2.0°F max)

Measurement Resolution
- For included "K" Type thermocouples: 0.1° (F or C) below 1000°F, 1° (F or C) above 1000°F

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, decimal point or comma decimal division, auto power off, beep sound, loop recording enable or disable, temperature unit, sampling time

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 7.5 mADC (normal operation, with backlight off and SD card not saving data)
- 25 mADC with backlight on and card saving data
- 36 mADC with backlight on and card saving data

Dimensions:
8.86 x 4.92x 2.52 in. (225 x 125 x 64mm)

Weight: 2.1 lb. (944g)

Power Source:
Eight "AA" batteries or optional 9-VDC AC adapter

GENERAL®

GENERAL®

Pressure Meter
with Excel-Formatted Data Logging SD Card

Accurately Measures Hydraulic or Pneumatic Pressure Using Ten Different Units

Applications:

- Automotive
- Mechanical engineering/design
- HVAC/R installations
- Equipment MRO

No. PM930SD

Boiler Room Pump Maintenance
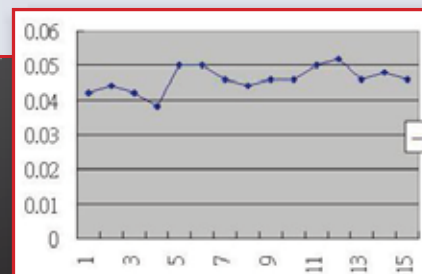

Hydraulic Valve Testing

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

Features:

- Measures hydraulic or pneumatic pressure using optional sensors with full-scale ranges from 2 to 400 bar
- Sensors calibrated by single push of a button
- Ten different pressure units selectable via front panel
- Displays maximum and minimum readings
- Performs real-time automatic data logging at sampling time settable from 1 second to 9 hours
- Also supports manual logging and changing of card storage location
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Auto power off function

Included Accessories:

- Carrying case
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- 2 bar full-scale pressure sensor (General P/N PS2)
- Pressure sensors:
    - 5 bar full-scale (General P/N PS5)
    - 10 bar full-scale (General P/N PS10)
    - 50 bar full-scale (General P/N PS50)
    - 100 bar full-scale (General P/N PS100)
    - 400 bar full-scale (General P/N PS400)
- SDRD1 - SD Card Reader

No. PM930SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Displayed Pressure Unit: bar, psi, inches Hg, inches H_2O, hPA, kPA, kg/cm^2, mm Hg, meters H_2O, atmospheres

Measurement Accuracy: ± 0.5% of full-scale reading + 1 digit

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 9 hours

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, optional pressure sensor's full-scale range (2, 5, 10, 20, 50, 100, 200 or 400 bar)

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 5 mADC (normal operation, with backlight off and SD card not saving data)
- 25 mADC with backlight on and card saving data
- 37 mADC with backlight on and card saving data

Dimensions of Meter:
6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 0.77 lb. (350g)

Power Source:
Six "AA" batteries or optional 9-VDC AC adapter

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Humidity-Temperature Meter
with Excel-Formatted Data Logging SD Card

Accurately Measures Temperature and Relative Humidity of a Fluid Including Dew Point/Wet-Bulb Temperature of Ambient Air

Applications:
- HVAC/R installations
- Horticulture

Rooftop HVAC System

Horticulture

No. DTH3007SD

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

Humidity-Temperature Meter
with Excel-Formatted Data Logging SD Card

Features:

- Four-function instrument measures temperature/humidity, dew point, wet-bulb temperature and surface temperature
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

Included Accessories:

- Soft carrying case
- Temperature-humidity probe
- 2 GB SD memory card
- User's manual

Optional Accessories:

- Hard carrying case
- 9VDC adapter for 110V power supply (General P/N AC1)
- "K" Type thermocouples:
    General P/N TPK500 (-50° to 500°F)
    General P/N TPK05 (-40° to 562°F)
    General P/N TPK03 (-40° to 950°F)
- SDRD1 - SD Card Reader

No. DTH3007SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Temperature, relative humidity (R.H.), dew point, wet-bulb temperature

Measurement Range:
- For temperature: 32° to 122°F (0° to 50°C)
- For R.H.: 5 to 95%
- For dew point: -13.5° to 120.1°F (-25.3° to 48.9°C)
- For wet-bulb temperature: -6.9° to 122°F (-21.6° to 50°C)

Measurement Accuracy:
- ± 1.5°F (± 0.8°C) for temperature
- Sum of temperature and humidity accuracies for dew point and wet-bulb temperature

Measurement Resolution:
- 0.1° (F or C) for temperature and humidity

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit

Storable/Recallable Readings: Maximum, minimum

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption::
- 3.5 mADC (normal operation, with backlight off and SD card not saving data)
- 28 mADC with backlight on and card saving data
- 40 mADC with backlight on and card saving data

Dimensions of Meter:
6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Power Source:
Six "AA" batteries or optional 9-VDC AC adapter

GENERAL®

Vibration Meter
with Excel-Formatted Data Logging SD Card

Accurately Measures a Machine's Acceleration and Velocity to Determine if They Are Within Operational Parameters

Applications:

- Performance testing/preventive maintenance of fans and motors
- Plant inspection
- Equipment production QC

Motor Performance Testing
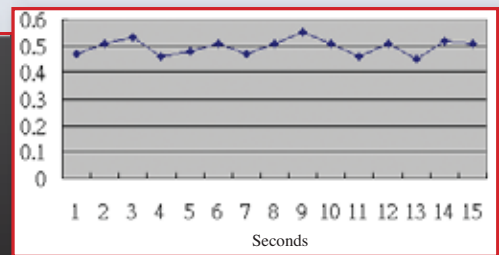

Fan Balancing

No. VM8205SD

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Typical Excel Plotted Data

GENERAL®

Vibration Meter
with Excel-Formatted Data Logging SD Card

Features:

- Vibration probe measures acceleration or velocity
- Included magnetic base facilitates attachment of probe to metal parts or machine housing
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any RMS reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location

Included Accessories:

- Hard carrying case
- Vibration sensing probe
- Magnetic base
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- SDRD1 - SD Card Reader

No. VM8205SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: Acceleration, velocity

Units:
- For acceleration: m/sec^2, g (gravitational force) or ft/sec^2
- For velocity: mm/sec, cm/sec or inches/sec

Displayed Value Options: Root mean square (RMS), peak, max hold

Input Frequency Range: 10 Hz to 1 kHz

Measurement Range:
- For acceleration: 0.5 to 199.9 m/sec^2, 0.05 to 20.39 g, 2 to 656 ft/sec^2
- For velocity: 0.5 to 199.9 mm/sec, 0.05 to 19.99 cm/sec, 0.02 to 7.87 inches/sec

Measurement Accuracy:
- For acceleration: ± (5% of reading + 2 digits)
- For velocity: ± (5% of reading + 2 digits)

Measurement Resolution:
- For acceleration: 0.1 m/sec^2, 0.01 g, 1 ft/sec^2
- For velocity: 0.1 m/sec, 0.01 inches/sec

Calibration Point:
- For acceleration: 50 m/sec^2 @ 160 Hz
- For velocity: 50 mm/sec @ 160 Hz

Data Logging Sampling Time: 1 second to 1 hour

Settable Parameters: Date, time, decimal point or comma decimal division, auto power off, beep sound, sampling time

Storable/Recallable Readings: Maximum, minimum, peak (RMS values only)

SD Card Capacity: 1 GB to 16 GB

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 15 mADC (normal operation, with backlight off and SD card not saving data)
- 36 mADC with backlight on and card saving data
- 48 mADC with backlight on and card saving data

Dimensions of Meter: 7.99 x 2.99 x 1.50 in. (203 x 76 x 38mm)

Weight of Meter: 1.13 lb. (515g)

Dimensions of Probe: 1.46 (length) x 0.63 (diameter) in. (37 x 16 mm)

Length of Probe Cable: 47.24 in. (1.2m)

Power Source: Six "AA" batteries or optional 9-VDC AC adapter

GENERAL®

pH, ORP Meter
with Excel-Formatted Data Logging SD Card

Accurately Measures pH and ORP (Oxidation-Reduction Potential)

No. DPH230SD

Applications:

- Water conditioning
- Beverage production
- Wastewater monitoring
- Aquaculture (fish farming)
- Aquariums
- Pulp and paper processing
- Electroplating
- Photography

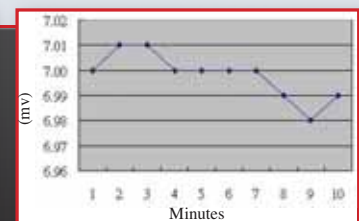
Water Conditioning

Beverage Production

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Minutes

Typical Excel Plotted Data

pH, ORP Meter
with Excel-Formatted Data Logging SD Card

GENERAL®

Features:

- Measures pH and ORP using optional electrodes
- Measured parameter can be changed by pressing front-panel button
- Optional ATC temperature probe automatically calibrates pH electrode to pH 4, pH 7 and pH 10
- Displays maximum and minimum readings
- Performs real-time automatic data logging at sampling time settable from 1 second to 9 hours
- Also supports manual logging and changing of card storage location
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Auto power off function

Included Accessories:

- Carrying case
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- ORP probe (General P/N ORP14)
- Automatic temperature compensation (ATC) probe (General P/N TP07)
- Professional-grade 0 to 14 pH electrode (General P/N PHS1)
- Heavy-duty spear tip pH electrodes (General P/Ns PHS4HD and PHS6HD)
- Combination pH electrode/temperature probe (General P/N PHS5T)
- Combination pH electrode/temperature probe with automatic temperature compensation (General P/N PHS3K7)
- SDRD1 - SD Card Reader

No. DPH230SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: pH, ORP

Measurement Range:
- For pH: 0 to 14
- For ORP: -1999 mV to +1999 mV

Measurement Accuracy:
- For pH: ± (0.02 pH units + 2 digits)
- For ORP: ± (0.5% of reading + 2 digits)

Measurement Resolution:
- For pH: 0.01 unit
- For ORP: 1 mV

Temperature Compensation:
- Automatic between 32° and 150°F (0° and 65°C) when using optional ATC temperature probe.
- Manually settable between 32° and 212°F (0° and 100°C) without ATC probe

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 9 hours

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, compensation temperature

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 14 mADC (normal operation, with backlight off and SD card not saving data)
- 37 mADC with backlight on and card saving data
- 49 mADC with backlight on and card saving data

Dimensions: 6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight: 1.08 lb. (489g)

Power Source:
Six "AA" batteries or optional 9-VDC AC adapter

GENERAL®

GENERAL®

Conductivity, TDS Meter
with Excel-Formatted Data Logging SD Card

Accurately Measures Any Solution's Conductivity, Total Dissolved Solids (TDS), Salt Content and Temperature

Applications:

- Electroplating
- Water conditioning
- Wastewater monitoring
- Aquaculture (fish farming)

Wastewater Treatment

No. DCT430SD

Salmon Farming

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

	A	B	C	D
1	Position	Date	Time	Ch1_Value
2	1	2009/8/12	13:16:36	73.1
3	2	2009/8/12	13:16:38	73.2
4	3	2009/8/12	13:16:40	73.2
5	4	2009/8/12	13:16:42	73.2
6	5	2009/8/12	13:16:44	73.4
7	6	2009/8/12	13:16:46	73.5
8	7	2009/8/12	13:16:48	73.4
9	8	2009/8/12	13:16:50	73.4
10	9	2009/8/12	13:16:52	73.5
11	10	2009/8/12	13:16:54	73.3

Typical Excel Plotted Data
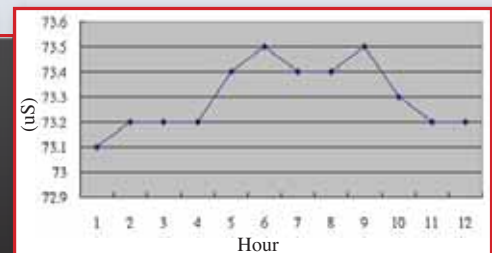
29

Conductivity, TDS Meter
with Excel-Formatted Data Logging SD Card

Features:

- Measures hydraulic or pneumatic pressure using optional sensors with full-scale ranges from 2 to 400 bar
- Sensors calibrated by single push of a button
- Ten different pressure units selectable via front panel
- Displays maximum and minimum readings
- Performs real-time automatic data logging at sampling time settable from 1 second to 9 hours

- Also supports manual logging and changing of card storage location
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Auto power off function

No. DCT430SD

Included Accessories:

- Hard carrying case
- Combination conductivity/TDS/salt probe (General P/N CDPB03)
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- SDRD1 - SD Card Reader

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Probe Type: Carbon rod electrode

Parameters (units) Measured:
- Conductivity (uS, mS)
- Total dissolved solids (ppm)
- Salt content (% weight)
- Temperature (°F, °C)

Measurement Accuracy:
- For conductivity: +- 2% of full-scale reading +1 digit, TDS
- For temperature: ± 0.8°C/± 1.5°F
- For salt: ±0.5% of value

Measurement Resolution:
- For Conductivity: 0.1 uS @ 200 uS full-scale (f.s.), 0.001 mS @ 2 mS f.s., 0.01 mS @ 20 mS f.s., 0.1 mS @ 200 mS f.s.
- For TDS: 0.1 ppm @200 ppm f.s., 1 ppm @ 2,000 ppm f.s., 10 ppm @ 20,000 ppm f.s., 100 ppm @ 100,000 ppm f.s.
- For Temperature: 0.1°F/0.1°C
- For Salt: 0.01%

Temperature Compensation:
- Automatic from 32° to 140°F (0° to 60°C)
- Temperature compensation factor is manually variable from 0 to 5% per degree Celsius

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 9 hours

SD Card Capacity: 1 GB to 16 GB

Settable parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, temperature compensation level

Operating Temperature:
- 32° to 122°F (0° to 50°C) for meter
- 32° to 140°F (0° to 60°C) for probe

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 14 mADC (normal operation, with backlight off and SD card not saving data)
- 37 mADC with backlight on and card saving data
- 49 mADC with backlight on and card saving data

Dimensions of Meter: 6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Dimensions of Probe: 0.86 in. (diameter) x 4.72 in. (L) (22mm x 120mm)

Power Source: Six "AA" batteries or optional 9-VDC AC adapter

Dissolved Oxygen Meter
with Excel-Formatted Data Logging SD Card

GENERAL®

Accurately Measures Dissolved Oxygen Concentration of Liquid or Air

Applications:

- Aquaculture (fish farming)
- Water pollution control
- Food processing
- Photography
- Pulp and paper manufacturing
- Power generation
- Electroplating
- Facilities management

Water Pollution Control


Power Generation

No. DOM551SD

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

	A	B	C	D	E
1	Position	Date	Time	Ch1_Value	Ch1_Unit
2	1	2009/8/12	13:38:29	7.8	mg/L
3	2	2009/8/12	13:38:30	7.8	mg/L
4	3	2009/8/12	13:38:32	7.8	mg/L
5	4	2009/8/12	13:38:34	7.6	mg/L
6	5	2009/8/12	13:38:36	7.6	mg/L
7	6	2009/8/12	13:38:38	7.6	mg/L
8	7	2009/8/12	13:38:40	7.5	mg/L
9	8	2009/8/12	13:38:42	7.5	mg/L
10	9	2009/8/12	13:38:44	7.5	mg/L
11	10	2009/8/12	13:38:46	7.5	mg/L

Typical Excel Data
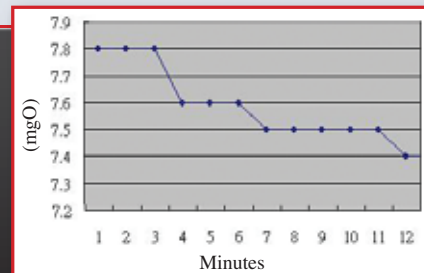
Typical Excel Plotted Data

Dissolved Oxygen Meter
with Excel-Formatted Data Logging SD Card

GENERAL®

Features:

- Uses heavy-duty polargraphic oxygen probe
- Precisely measures DO from 0 to 20 mg/L, as well as liquid temperature
- Easy to calibrate
- Supports automatic and manual data logging
- Time-stamps and stores measurements on SD memory cards
- Sampling time settable from 1 second to 9 hours
- Automatically compensates for altitude and salt content of liquids
- 1.5 x 2.0 in. backlit liquid crystal display

Included Accessories:

- Hard carrying case
- Oxygen probe
- Probe-filling electrolyte
- Two spare probe heads and diaphragm set
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- SDRD1 - SD Card Reader

No. DOM551SD

Specifications:

Embedded Microcontroller: Custom single-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.0 x 1.5 in. (52 x 38mm)

DO Measurement Range: 0 to 20 mg/L

DO Measurement Resolution: 0.1 mg/L

DO Measurement Accuracy: ± 0.4 mg/L

Oxygen in Air Measurement Range: 0 to 100%

Oxygen in Air Measurement Resolution: 0.1% O_2

Oxygen in Air Measurement Accuracy: ±0.7% O_2

Temperature Measurement Range: 32° to 122°F (0° to 50°C)

Temperature Measurement Resolution: 0.1 °F or °C

Temperature Measurement Accuracy: ±1.5 °F (±0.8 °C)

Compensation For Temperature: Automatic

Compensation For Altitude: 0 to 29,200 ft. (0 to 8,900m)

Compensation For Liquid Salt Content: 0 to 50%

Data Logging Sampling Time: 1 second to 9 hours

DO Probe Type: Polarographic

SD Memory Card Capacity: 1 GB to 16 GB

Power Consumption:
- 14 mADC (normal operation, with backlight off and SD card not saving data)
- 37 mADC with backlight on and card not saving data
- 49 mADC with backlight on and card saving data

Operating Temperature: 32° to 122 °F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Dimensions of Meter:
7.0 x 2.7 x 1.9 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Dimensions of Probe:
7.5 (long) x 1.1 (across) inches (190 x 28mm)

Weight of Probe: 0.74 lb. (335g)

Power Source:
Six "AA" batteries or 9-VDC adapter

GENERAL®

General Tools & Instruments
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pH, ORP, DO, CD, TDS, Salt Meter
with Excel-Formatted Data Logging SD Card

Accurately Measures Conductivity, Total Dissolved Solids (TDS) or Salt Concentration of a Liquid. Optional Probes Measure pH, ORP (Oxidation-Reduction Potential) and Dissolved Oxygen (DO)

Applications:

- Water conditioning
- Wastewater monitoring and control
- Beverage production
- Aquaculture (fish farming)
- Pulp and paper processing
- Electroplating
- Photography

No. WK2017SD
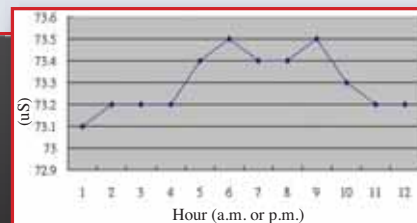

Beverage Production

Wastewater Monitoring

This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Typical Excel Data

Hour (a.m. or p.m.)

Typical Excel Plotted Data

pH, ORP, DO, CD, TDS, Salt Meter
with Excel-Formatted Data Logging SD Card

GENERAL®

Features:

- Measures pH, ORP and conductivity, and TDS, salt and DO content using included and optional electrodes and probes
- Measured parameter can be changed by pressing front-panel buttons
- DO measurements can be compensated for salt, altitude and temperature
- Also measures oxygen content of a volume of air

- Optional ATC probe automatically temperature-compensates pH electrode
- Displays maximum and minimum readings
- Performs real-time automatic data logging at sampling time settable from 1 second to 9 hours
- Also supports manual logging and changing of card storage location
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Auto power off function

Included Accessories:

- Hard carrying case
- Combination conductivity/ TDS/salt probe (P/N CDPB03)
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- ORP probe (General P/N ORP14)
- Automatic temperature compensation (ATC) probe (General P/N TP07)
- Dissolved oxygen probe (General P/N OXPB11)
- Professional-grade 0 to 14 pH electrode (General P/N PHS1)
- Heavy-duty spear tip pH electrodes (General P/Ns PHS4HD and PHS6HD)
- Combination pH electrode/temperature probe (General P/N PHS5T)
- Combination pH electrode/temperature probe with automatic temperature compensation (General P/N PHS3K7)
- SDRD1 - SD Card Reader

No. WK2017SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Parameters Measured: pH, ORP, conductivity, TDS content, DO content, salt content

Measurement Range:
- For pH: 0 to 14   • For ORP: -1999 mV to +1999 mV
- For conductivity: up to 200 mS (microSiemens)
- For TDS: up to 132,000 ppm   • For DO: up to 20 mg/L
- For salt: up to 12% by weight

Measurement Accuracy:
- For pH: ± (0.02 pH units + 2 digits)
- For ORP: ± (0.5% of reading + 2 digits)
- For conductivity: ± 2% of full-scale reading + 1 digit
- For TDS: ± 2% of full-scale reading + 1 digit
- For temperature: ± 0.8°C/± 1.5°F
- For DO: ± 0.4 mg/L in solution
- For oxygen: 0.1% for oxygen in air   • For salt: ±0.5% of value

Measurement Resolution:
- For pH: 0.01 unit   • For ORP: 1 mV
- For conductivity: 0.1 uS @ 200 uS full-scale (f.s.), 0.001 mS @ 2 mS f.s., 0.01 mS @ 20 mS f.s., 0.1mS @ 200 mS f.s.
- For TDS: 0.1 ppm @200 ppm f.s., 1 ppm @2,000 ppm f.s., 10 ppm @ 20,000 ppm f.s., 100 ppm @ 100,000 ppm f.s.
- For temperature: 0.1°F/0.1°C   • For DO: 0.1 mg/L in solution
- For oxygen: 0.1% in air   • For salt: 0.01% of reading

Temperature Compensation:
- Automatic between 32° and 150°F (0° and 65°C) when using optional ATC temperature probe
- Manually settable between 32° and 212°F (0° and 100°C) without ATC probe

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 9 hours

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, compensation temperature. Also salt and altitude compensation (DO mode only)

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:
- 14 mADC (normal operation, with backlight off and SD card not saving data)
- 37 mADC with backlight on and card saving data
- 49 mADC with backlight on and card saving data

Dimensions of Meter: 6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Power Supply:
Six "AA" batteries or optional 9-VDC AC adapter

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Hot Wire Anemometer-Thermometer

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Dissolved Oxygen Meter

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pH, ORP, DO, CD, TDS, Salt Meter

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