



Precision Measuring Instruments with Excel-Formatted Data Logging SD Card

**PATENTED
TECHNOLOGY!**



Precision, Specialty and Innovation

Item No.	Description	Page No.
Air Speed Meters		
DAF4207SD	Anemometer-Thermometer	3-4
HWA4214SD	Hot Wire Anemometer-Thermometer	5-6
DLAF930SD	Environment Meter	7-8
Sound Level Meters		
DSM402SD	Class 2 Sound Level Meter	9-10
DSM403SD	Class 1 Sound Level Meter	11-12
Light Meters		
UV254SD	UVA, UVC Light Meter	13-14
DLM112SD	Light Meter	15-16
Thermocouple Thermometers		
DT4947SD	4-Channel Thermometer	17-18
DT4208SD	12-Channel Temperature Recorder	19-20
Pressure Meter		
PM930SD	Pressure Meter	21-22
Humidity Meter		
DTH3007SD	Humidity-Temperature Meter	23-24
Vibration Meter		
VM8205SD	Vibration Meter	25-26
Water Quality Meters		
DPH230SD	pH, ORP Meter	27-28
DCT430SD	Conductivity, TDS Meter	29-30
DOM551SD	Dissolved Oxygen Meter	31-32
WK2017SD	pH, ORP, DO, CD, TDS, Salt Meter	33-34

GENERAL[®]

Anemometer-Thermometer

with Excel-Formatted Data Logging SD Card

Accurately Measures Air (Wind) Speed and Temperature



No. DAF4207SD

Applications:

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



Industrial Vent



Energy Auditing

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



Patented Technology

Line	Date	Time	Value	Unit	Temp
1	2009/6/8	15:12:16	5.0	air/s	26.0 AirTemp C
2	2009/6/8	15:12:17	3.2	air/s	26.0 AirTemp C
3	2009/6/8	15:12:19	2.1	air/s	26.0 AirTemp C
4	2009/6/8	15:12:19	2.0	air/s	26.0 AirTemp C
5	2009/6/8	15:12:20	2.0	air/s	26.0 AirTemp C
6	2009/6/8	15:12:21	2.7	air/s	26.0 AirTemp C
7	2009/6/8	15:12:22	3.0	air/s	26.0 AirTemp C
8	2009/6/8	15:12:23	2.9	air/s	26.0 AirTemp C
9	2009/6/8	15:12:24	2.9	air/s	26.0 AirTemp C
10	2009/6/8	15:12:25	2.9	air/s	26.0 AirTemp C
11	2009/6/8	15:12:26	2.0	air/s	26.0 AirTemp C
12	2009/6/8	15:12:27	3.0	air/s	26.0 AirTemp C
13	2009/6/8	15:12:28	3.1	air/s	26.0 AirTemp C
14	2009/6/8	15:12:29	3.4	air/s	26.0 AirTemp C
15	2009/6/8	15:12:30	5.0	air/s	26.0 AirTemp C
16	2009/6/8	15:12:31	4.2	air/s	26.0 AirTemp C
17	2009/6/8	15:12:32	3.2	air/s	26.0 AirTemp C
18	2009/6/8	15:12:33	2.8	air/s	26.0 AirTemp C
19	2009/6/8	15:12:34	3.1	air/s	26.0 AirTemp C
20	2009/6/8	15:12:35	3.0	air/s	26.0 AirTemp C
21	2009/6/8	15:12:36	3.0	air/s	26.0 AirTemp C
22	2009/6/8	15:12:37	3.1	air/s	26.0 AirTemp C
23	2009/6/8	15:12:38	2.8	air/s	26.0 AirTemp C

Typical Excel Data



Typical Excel Plotted Data



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

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



No. DAF4207SD

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: $\pm (2\% + 0.2 \text{ m/sec})$, $\pm (2\% + 0.8 \text{ km/hr})$, $\pm (2\% + 0.4 \text{ mph})$, $\pm (2\% + 0.4 \text{ knots})$, $\pm (2\% + 40 \text{ ft/min})$
- For temperature: $\pm 1.5^\circ\text{F}$ ($\pm 0.8^\circ\text{C}$)

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 $\pm 1.5^{\circ}\text{F}$ ($\pm 0.8^{\circ}\text{C}$)**



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**

Line	Date	Time	Value	Unit	Value	Unit
1	2009/6/8	15:12:16	0.8	mi/S	28.8	AMTemp C
2	2009/6/8	15:12:17	2.2	mi/S	28.8	AMTemp C
3	2009/6/8	15:12:18	2.3	mi/S	28.8	AMTemp C
4	2009/6/8	15:12:19	2.9	mi/S	28.8	AMTemp C
5	2009/6/8	15:12:20	2.9	mi/S	28.8	AMTemp C
6	2009/6/8	15:12:21	2.7	mi/S	28.8	AMTemp C
7	2009/6/8	15:12:22	3.6	mi/S	28.8	AMTemp C
8	2009/6/8	15:12:23	2.9	mi/S	28.8	AMTemp C
9	2009/6/8	15:12:24	2.9	mi/S	28.8	AMTemp C
10	2009/6/8	15:12:25	2.9	mi/S	28.8	AMTemp C
11	2009/6/8	15:12:26	2.9	mi/S	28.8	AMTemp C
12	2009/6/8	15:12:27	3	mi/S	28.8	AMTemp C
13	2009/6/8	15:12:28	3.1	mi/S	28.8	AMTemp C
14	2009/6/8	15:12:29	3.1	mi/S	28.7	AMTemp C
15	2009/6/8	15:12:30	3.9	mi/S	28.1	AMTemp C
16	2009/6/8	15:12:31	4.2	mi/S	29	AMTemp C
17	2009/6/8	15:12:32	3.2	mi/S	28.8	AMTemp C
18	2009/6/8	15:12:33	3.4	mi/S	28.8	AMTemp C

Typical Excel Data



Typical Excel Plotted Data



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

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: $\pm (5\% + 0.1 \text{ m/sec})$, $\pm (5\% + 0.3 \text{ km/hr})$, $\pm (5\% + 0.2 \text{ mph})$, $\pm (5\% + 0.2 \text{ knots})$, $\pm (5\% + 20 \text{ ft/min})$
- For temperature: $\pm 1.5^\circ\text{F}$ ($\pm 0.8^\circ\text{C}$)

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



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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



No. DLAF930SD

Applications:

- Facilities management
- Environment control
- OSHA compliance



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

Time	Temp	Humidity	Light	Sound	Temp	Humidity	Light	Sound
1	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
2	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
3	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
4	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
5	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
6	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
7	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
8	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
9	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
10	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
11	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
12	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
13	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
14	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
15	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
16	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
17	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
18	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
19	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0
20	20.000	25.000	0.0	0.0	20.0	25.0	0.0	0.0

Typical Excel Data



Typical Excel Plotted Data



Environment Meter

with Excel-Formatted Data Logging SD Card

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: $\pm (2\% + 0.2 \text{ m/sec})$, $\pm (2\% + 0.8 \text{ km/hr})$, $\pm (2\% + 0.4 \text{ mph})$, $\pm (2\% + 0.4 \text{ knots})$, $\pm (2\% + 40 \text{ ft/min})$
- For temperature: 1.5°F ($\pm 0.8^\circ\text{C}$)
- For humidity: $\pm (3\% \text{ of reading} + 1\%)$ for R.H. values $\geq 70\%$; $\pm 3\% \text{ of reading}$ for R.H. values $< 70\%$
- For light level: $\pm (5\% \text{ of reading} \pm 8 \text{ digits})$

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



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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**



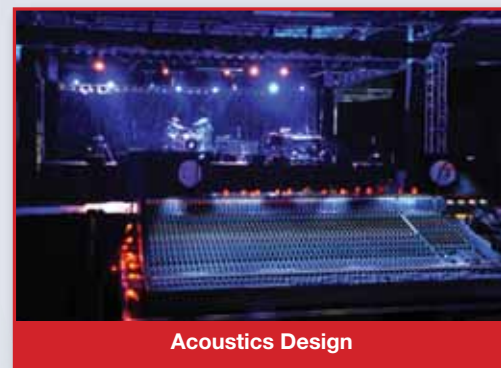
No. DSM402SD

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

	A	B	C	D	E
1	Place	Date	Time	Value	Unit
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



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



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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



No. DSM403SD

Applications:

- Acoustics design
- Sound system setup
- OSHA compliance



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
1	Place	Date	Time	Value	Unit
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



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 Tools & Instruments

80 White Street, New York, NY 10013-3567
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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/cm² and 20 mW/cm²



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

	A	B	C	D	E
1	Place	Date	Time	Value	Unit
2	1	2009/12/11	09:55:56	2.37	UVA mW/cm ²
3	2	2009/12/11	09:55:58	2.4	UVA mW/cm ²
4	3	2009/12/11	09:56:00	2.38	UVA mW/cm ²
5	4	2009/12/11	09:56:02	3.29	UVA mW/cm ²
6	5	2009/12/11	09:56:04	3.74	UVA mW/cm ²
7	6	2009/12/11	09:56:06	3.89	UVA mW/cm ²
8	7	2009/12/11	09:56:08	3.14	UVA mW/cm ²
9	8	2009/12/11	09:56:10	2.23	UVA mW/cm ²
10	9	2009/12/11	09:56:12	0.953	UVA mW/cm ²
11	10	2009/12/11	09:56:14	1.011	UVA mW/cm ²
12	11	2009/12/11	09:56:16	0.981	UVA mW/cm ²
13	12	2009/12/11	09:56:18	0.673	UVA mW/cm ²
14	13	2009/12/11	09:56:20	0.892	UVA mW/cm ²
15	14	2009/12/11	09:56:22	2.16	UVA mW/cm ²

Typical Excel Data



Typical Excel Plotted Data



UVA, UVC Light Meter

with Excel-Formatted Data Logging SD Card

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/cm² and 20 mW/cm²

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



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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



No. DLM112SD

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



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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Time	Date	Time	Value	Unit	Value	Unit								
1	2009/6/8	15:14:54	663	LUX										
2	2009/6/8	15:14:55	666	LUX										
3	2009/6/8	15:14:56	663	LUX										
4	2009/6/8	15:14:57	663	LUX										
5	2009/6/8	15:14:58	666	LUX										
6	2009/6/8	15:14:59	659	LUX										
7	2009/6/8	15:15:00	664	LUX										
8	2009/6/8	15:15:01	664	LUX										
9	2009/6/8	15:15:02	664	LUX										
10	2009/6/8	15:15:03	664	LUX										
11	2009/6/8	15:15:04	664	LUX										
12	2009/6/8	15:15:05	667	LUX										
13	2009/6/8	15:15:06	674	LUX										
14	2009/6/8	15:15:07	674	LUX										
15	2009/6/8	15:15:07	674	LUX										

Typical Excel Data



Typical Excel Plotted Data



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



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4-Channel Thermometer

with Excel-Formatted Data Logging SD Card

**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

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

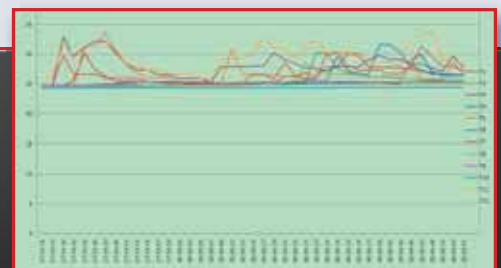
This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



Patented Technology

Time	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12
1/20/03 11:00:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:05	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:10	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:15	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:20	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:25	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:30	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:35	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:40	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:45	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:50	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:00:55	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5
1/20/03 11:01:00	44.6	44.7	44.8	44.6	44.5	44.8	44.7	44.5	44.6	44.7	44.8	44.5

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: \pm (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 4.92 x 2.52 in. (225 x 125 x 64mm)

Weight: 2.1 lb. (944g)

Power Source:

Eight "AA" batteries or optional 9-VDC AC adapter



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Pressure Meter

with Excel-Formatted Data Logging SD Card

**Accurately Measures Hydraulic or Pneumatic Pressure
Using Ten Different Units**



No. PM930SD

Applications:

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



Boiler Room Pump Maintenance



Hydraulic Valve Testing

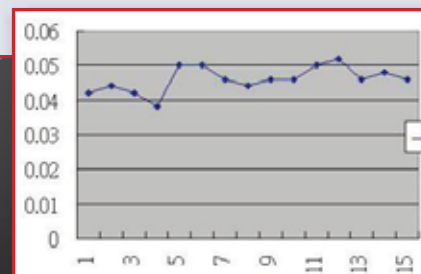
This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



Patented Technology

	A	B	C	D	E
1	Position	Date	Time	Chl. Value	Chl. Unit
2	1	2009/10/19	10:18:58	0.042	Bar
3	2	2009/10/19	10:19:00	0.044	Bar
4	3	2009/10/19	10:19:02	0.042	Bar
5	4	2009/10/19	10:19:04	0.038	Bar
6	5	2009/10/19	10:19:05	0.05	Bar
7	6	2009/10/19	10:19:09	0.05	Bar
8	7	2009/10/19	10:19:10	0.046	Bar
9	8	2009/10/19	10:19:12	0.044	Bar
10	9	2009/10/19	10:19:14	0.046	Bar
11	10	2009/10/19	10:19:15	0.046	Bar
12	11	2009/10/19	10:19:15	0.05	Bar
13	12	2009/10/19	10:19:20	0.052	Bar
14	13	2009/10/19	10:19:22	0.046	Bar

Typical Excel Data



Typical Excel Plotted Data



Pressure 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

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 H₂O, hPA, kPA, kg/cm², mm Hg, meters H₂O, 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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GENERAL[®]

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



No. DTH3007SD

Applications:

- HVAC/R installations
- Horticulture



Rooftop HVAC System



Horticulture

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



Patented Technology

Time	Date	Time	Value	Unit	Value	Unit
1	2009/02/03	10:40:58	53.8	%RH	29.5	Degree C
2	2009/02/03	10:41:03	53.8	%RH	29.5	Degree C
3	2009/02/03	10:41:08	53.8	%RH	29.5	Degree C
4	2009/02/03	10:41:13	53.8	%RH	29.5	Degree C
5	2009/02/03	10:41:18	53.7	%RH	29.5	Degree C
6	2009/02/03	10:41:23	53.7	%RH	29.5	Degree C
7	2009/02/03	10:41:28	60.2	%RH	29.5	Degree C
8	2009/02/03	10:41:33	76.7	%RH	29.6	Degree C
9	2009/02/03	10:41:38	75.9	%RH	29.6	Degree C
10	2009/02/03	10:41:43	66.8	%RH	29.7	Degree C
11	2009/02/03	10:41:48	63.2	%RH	29.6	Degree C
12	2009/02/03	10:41:53	58.5	%RH	29.6	Degree C
13	2009/02/03	10:41:58	56	%RH	29.6	Degree C
14	2009/02/03	10:42:03	55	%RH	29.6	Degree C
15	2009/02/03	10:42:08	54.6	%RH	29.5	Degree C
16	2009/02/03	10:42:13	54.4	%RH	29.5	Degree C
17	2009/02/03	10:42:18	54.3	%RH	29.5	Degree C

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:

- $\pm 1.5^\circ\text{F}$ ($\pm 0.8^\circ\text{C}$) 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



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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



No. VM8205SD

Applications:

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



Motor Performance Testing



Fan Balancing

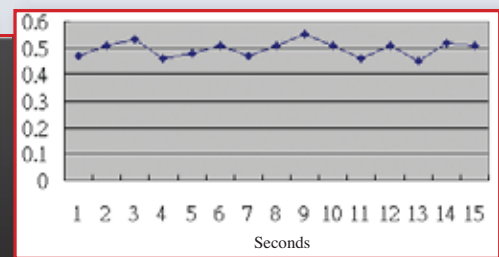
This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



Patented Technology

19	Place	Date	Time	Value	Unit
20	1	2010/06	10:06:44	0.47	ACC g
21	2	2010/06	10:06:46	0.51	ACC g
22	3	2010/06	10:06:48	0.53	ACC g
23	4	2010/06	10:06:50	0.46	ACC g
24	5	2010/06	10:06:52	0.48	ACC g
25	6	2010/06	10:06:54	0.51	ACC g
26	7	2010/06	10:06:56	0.47	ACC g
27	8	2010/06	10:06:58	0.51	ACC g
28	9	2010/06	10:07:00	0.55	ACC g
29	10	2010/06	10:07:02	0.51	ACC g
30	11	2010/06	10:07:04	0.46	ACC g
31	12	2010/06	10:07:06	0.51	ACC g

Typical Excel Data



Typical Excel Plotted Data



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/sec², g (gravitational force) or ft/sec²
- 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/sec², 0.05 to 20.39 g, 2 to 656 ft/sec²
- 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/sec², 0.01 g, 1 ft/sec²
- For velocity: 0.1 m/sec, 0.01 inches/sec

Calibration Point:

- For acceleration: 50 m/sec² @ 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



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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

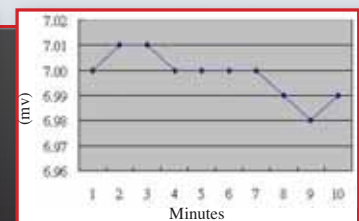
This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



Patented Technology

	A	B	C	D	E	F	G
1	Position	Date	Time	Ch1_Value	Ch1_Unit	Ch2_Value	Ch2_unit
2	1	2009/8/12	13:26:37	7.00	pH	25.0	Degree_C
3	2	2009/8/12	13:26:39	7.01	pH	25.0	Degree_C
4	3	2009/8/12	13:26:41	7.01	pH	25.0	Degree_C
5	4	2009/8/12	13:26:43	7.00	pH	25.0	Degree_C
6	5	2009/8/12	13:26:45	7.00	pH	25.0	Degree_C
7	6	2009/8/12	13:26:47	7.00	pH	25.0	Degree_C
8	7	2009/8/12	13:26:49	7.00	pH	25.0	Degree_C
9	8	2009/8/12	13:26:51	6.99	pH	25.0	Degree_C
10	9	2009/8/12	13:26:53	6.98	pH	25.0	Degree_C

Typical Excel Data



Typical Excel Plotted Data



pH, ORP Meter

with Excel-Formatted Data Logging SD Card

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: \pm (0.02 pH units + 2 digits)
- For ORP: \pm (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



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Conductivity, TDS Meter

with Excel-Formatted Data Logging SD Card

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



No. DCT430SD

Applications:

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



Wastewater Treatment



Salmon Farming

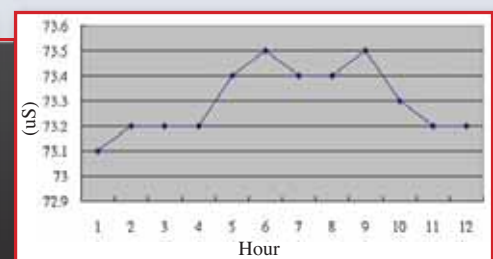
This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



Patented Technology

	A	B	C	D
1	Position	Date	Time	Chl_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 Data



Typical Excel Plotted Data



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: $\pm 2\%$ of full-scale reading +1 digit, TDS
- For temperature: $\pm 0.8^\circ\text{C}/\pm 1.5^\circ\text{F}$
- For salt: $\pm 0.5\%$ 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: $0.1^\circ\text{F}/0.1^\circ\text{C}$
- 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



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GENERAL[®]

Dissolved Oxygen Meter

with Excel-Formatted Data Logging SD Card

**Accurately Measures Dissolved
Oxygen Concentration of Liquid or Air**



No. DOM551SD

Applications:

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



Water Pollution Control



Power Generation

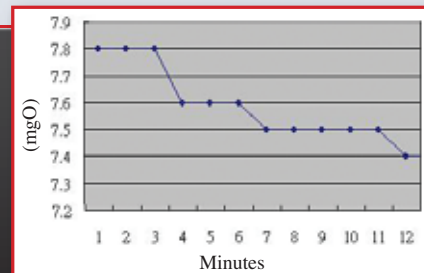
This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



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

Features:

- Uses heavy-duty polarographic 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% O₂
Oxygen in Air Measurement Accuracy: $\pm 0.7\%$ O₂
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



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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)



No. WK2017SD

Applications:

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



Beverage Production



Wastewater Monitoring

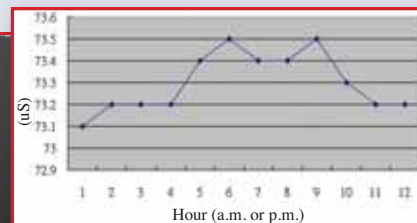
This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards



Patented Technology

A	B	C	D	E	F	G
1	Probe	Time	Chl_Value	Chl_Unit	Chl_Value	Chl_Unit
2	1	2004/5/12 13:06:36	73.1	µS	24.7	Degree_C
3	2	2004/5/12 13:06:38	73.2	µS	24.7	Degree_C
4	3	2004/5/12 13:06:40	73.2	µS	24.7	Degree_C
5	4	2004/5/12 13:06:42	73.2	µS	24.7	Degree_C
6	5	2004/5/12 13:06:44	73.6	µS	24.7	Degree_C
7	6	2004/5/12 13:06:46	73.5	µS	24.7	Degree_C
8	7	2004/5/12 13:06:48	73.6	µS	24.7	Degree_C
9	8	2004/5/12 13:06:50	73.6	µS	24.7	Degree_C
10	9	2004/5/12 13:06:52	73.7	µS	24.7	Degree_C
11	10	2004/5/12 13:06:54	73.3	µS	24.7	Degree_C
12	11	2004/5/12 13:06:56	73.2	µS	24.7	Degree_C
13	12	2004/5/12 13:06:58	73.2	µS	24.7	Degree_C

Typical Excel Data



Typical Excel Plotted Data



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

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



General Tools & Instruments

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Anemometer-Thermometer



No. DAF4207SD Pages 3-4

Hot Wire Anemometer-Thermometer



No. HWA4214SD Pages 5-6

Environment Meter



No. DLAF930SD Pages 7-8

Class 2 Sound Level Meter



No. DSM402SD Pages 9-10

Class 1 Sound Level Meter



No. DSM403SD Pages 11-12

UVA, UVC Light Meter



No. UV254SD Pages 13-14

Light Meter



No. DLM112SD Pages 15-16

4-Channel Thermometer



No. DT4947SD Pages 17-18

12-Channel Temperature Recorder



No. DT4208SD Pages 19-20

Pressure Meter



No. PM930SD Pages 21-22

Humidity-Temperature Meter



No. DTH3007SD Pages 23-24

Vibration Meter



No. VM8205SD Pages 25-26

pH, ORP Meter



No. DPH230SD Pages 27-28

Conductivity, TDS Meter



No. DCT430SD Pages 29-30

Dissolved Oxygen Meter



No. DOM551SD Pages 31-32

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



No. WK2017SD Pages 33-34



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SD12 Printed in USA 2.5M 4/12