

GENERAL®

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	Date	Temp	Hum	Wind	Light	Sound
1	2009/01/15	25.1200	65.00	0.0	20.0	40.0
2	2009/01/15	25.1200	65.00	0.0	20.0	40.0
3	2009/01/15	25.1200	65.00	0.0	20.0	40.0
4	2009/01/15	25.1200	65.00	0.0	20.0	40.0
5	2009/01/15	25.1200	65.00	0.0	20.0	40.0
6	2009/01/15	25.1200	65.00	0.0	20.0	40.0
7	2009/01/15	25.1200	65.00	0.0	20.0	40.0
8	2009/01/15	25.1200	65.00	0.0	20.0	40.0
9	2009/01/15	25.1200	65.00	0.0	20.0	40.0
10	2009/01/15	25.1200	65.00	0.0	20.0	40.0
11	2009/01/15	25.1200	65.00	0.0	20.0	40.0
12	2009/01/15	25.1200	65.00	0.0	20.0	40.0
13	2009/01/15	25.1200	65.00	0.0	20.0	40.0
14	2009/01/15	25.1200	65.00	0.0	20.0	40.0
15	2009/01/15	25.1200	65.00	0.0	20.0	40.0
16	2009/01/15	25.1200	65.00	0.0	20.0	40.0
17	2009/01/15	25.1200	65.00	0.0	20.0	40.0
18	2009/01/15	25.1200	65.00	0.0	20.0	40.0
19	2009/01/15	25.1200	65.00	0.0	20.0	40.0
20	2009/01/15	25.1200	65.00	0.0	20.0	40.0

Typical Excel Data



Typical Excel Plotted Data

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CALRIGHT INSTRUMENTS
The Right Source For Your Test & Measurement Needs



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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