

TECHNICAL DATA



Specifications

Air Velocity

Measuring Ranges: 0.4 to 30.0 m/s
1.4 to 128.0 km/h
0.9 to 78.3 mph
79 to 6890 fpm
0.8 to 68.0 knots

Accuracy: $\pm 2\% + 0.2$ m/s
(0.8 km/h; 0.4 mph;
40 fpm; 0.4 knot)

Resolution: 0.1 m/s, km/h, mph, knot
1 fpm

Temperature

Measuring Ranges: Air Temperature: 32 to 122.0°F (0 to 50°C)
Contact Temperature:
Type K: -148 to 2372°F
(-100 to 1300°C)
Type J: -148 to 2192°F
(-100 to 1200°C)

Accuracy: Air Temperature: $\pm 0.8^\circ\text{C}$ ($\pm 1.5^\circ\text{F}$)
Contact Temperature:
 $\pm (0.4\% + 1^\circ\text{F}(0.5^\circ\text{C}))$

Resolution: 0.1°F/°C

Humidity

Measuring Range: 5 to 95%RH

Accuracy: $>70\%RH: \pm(3\% \text{ rdg} + 1\%RH)$
 $<70\%RH: \pm 3\%RH$

Resolution: 0.1%RH

Features

- Measures air velocity/temperature, ambient temperature, relative humidity, light, and contact temperature
- Measures sound level (dB) with SL-417 (sold separately)
- Air velocity is measured in m/s, ft/min, km/h, mph or knots
- Light levels are measured in foot-candles or lux
- Temperature is measured in °C or °F
- Data hold and Max/Min functions
- Real-time datalogger with integral SD memory card
- User selectable sampling rate from 1 to 3600 seconds
- Large, easy-to-read backlit LCD display
- Optional PC software features live tracking via USB connection
- Tripod mount for long-term monitoring
- Low battery indicator and auto shut off
- Includes multi-function probe, hard carrying case, and batteries



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Light

Measuring Ranges: 0 to 20,000 Lux
(0 to 1,860 Ft-cd)

Accuracy: $\pm(5\% \text{ rdg} \pm 8 \text{ dgt})$

Resolution: 1 Lux/0.1 Ft-cd

Sound (Optional, SL-417 Adapter Sold Separately)

Measuring Ranges: 30 to 80dB
50 to 100dB
80 to 130dB

Accuracy: Basic Accuracy of $\pm 3.5 \text{ dB}$

Resolution: 1 dB

General Specifications

Response Time: 1 sec

Display: 4-digit dual LCD

Backlit Display: Yes

Data Hold: Yes

Min: Yes

Max: Yes

Zero Adjustment: Yes (for Light)

Datalogging Capabilities: Yes

Real-Time Clock
and Date Stamp: Yes

Selectable Sampling Rate: Yes (1, 2, 5, 10, 30, 60, 120,
300, 600, 1800, 3600s)

External Memory: Yes, expandable up to 16Gb
with SD card (optional)

Auto Shut-off: Yes (after 10 mins/off)

Kick Stand: Yes

Tripod Mountable: Yes

Low Battery Indicator: Yes

Power Supply: 6 x AA batteries or
AC Adapter (optional)

Output: Yes

PC Connectivity: USB Cable (optional)

Software: SW-U801-WIN
Software (optional)

Software OS Compatibility: Windows XP/Vista/7

Product Certifications: CE

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

Storage Temperature: 14 to 140°F (-10 to 60°C)

Operating Humidity: 10 to 85%

Dimensions: Instrument: 5.3 x 2.4 x 1.3"
(135 x 60 x 33mm)
Probe: 4.1 x 1.8 x 1.1"
(105 x 46 x 29mm)

Weight: 1.1lb (515g)



Model	Description
SD-9300	Environmental Meter/Datalogger
R4700SD-PROBE	Replacement Probe for SD-9300
SL-417	Sound Level Adapter
R2920	Surface Thermocouple Probe
R2930	Right Angle Thermocouple Surface Probe
R2940	Air/Gas Thermocouple Probe
R2950	Immersion Thermocouple Probe
R2960	Needle Tip Thermocouple Probe
SD-4GB	4GB SD Memory Card
USB-01	USB Cable
SW-U801-WIN	Data Acquisition Software
RSD-ADP-NA	AC Adapter, 110V
R1500	Tripod
CA-05A	Soft Carrying Case
R8888	Hard Carrying Case
SD-9300-NIST	Environmental Meter/Datalogger & NIST