

### 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  
 CE  
 Product Certifications:  
 Operating Temperature: 0 to 122°F (0 to 50°C)  
 Storage Temperature: 14 to 140°F (-10 to 60°C)  
 Operating Humidity: 10-85%  
 Dimensions: Instrument: 5.3 x 2.4 x 1.3"  
 (135 x 60 x 33 mm)  
 Probe: 4.1 x 1.8 x 1.1"  
 (105 x 46 x 29 mm)  
 Weight: 1.1lb (515g)



Model	Description
<b>SD-9300</b>	Environmental Meter/Datalogger
<b>SL-417</b>	Sound Level Adapter
<b>LS-103</b>	Air/Gas Thermocouple Probe
<b>LS-104</b>	Right Angle Thermocouple Surface Probe
<b>LS-107</b>	Immersion Thermocouple Probe
<b>LS-109</b>	Surface Thermocouple Probe
<b>LS-134A</b>	Needle Tip Thermocouple Probe
<b>LS-139</b>	Spring Loaded Surface Probe
<b>SD-4GB</b>	4GB SD Memory Card
<b>USB-01</b>	USB Cable
<b>SW-U801-WIN</b>	Data Acquisition Software
<b>AP-9VA-110V</b>	AC Adapter
<b>R1500</b>	Tripod
<b>CA-05A</b>	Soft Carrying Case
<b>R8888</b>	Deluxe Hard Carrying Case
<b>SD-9300-NIST</b>	Environmental Meter/Datalogger & NIST