

### 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

Accuracy:

$\pm 2\% + 0.2 \text{ m/s}$   
(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)  
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  
>70%RH:  $\pm (3\% \text{ rdg} + 1\% \text{RH})$   
<70%RH:  $\pm 3\% \text{RH}$

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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### TECHNICAL DATA

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