

### Features

- Measures air velocity/temperature, ambient temperature, relative humidity, light, and contact temperature
- Measures sound level (dB) with R4700SD-SOUND (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 integrated SD memory card
- User selectable sampling rate from 1 to 3600 seconds
- Easy-to-read backlit LCD display
- Tripod mount for long-term monitoring
- Low battery indicator and auto shut off
- Includes multi-function probe, hard carrying case & batteries

### Specifications

#### Air Velocity

Measuring Ranges:

m/s: 0.4 to 30.0  
km/h: 1.4 to 108  
mph: 0.9 to 67.1  
fpm: 79 to 5906  
knots: 0.8 to 58.3

Accuracy:

±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 Temperature:  
-148 to 2372°F (-100 to 1300°C)  
Type J Temperature:  
-148 to 2192°F (-100 to 1200°C)

Accuracy:

Air Temperature: ±0.8°C (±1.5°F)  
Contact Temperature:  
≥-58°F (-50°C) ±(0.4% + 1.5°F (0.8°C))  
≤-58°F (-50°C) ±(0.4% + 1.8°F (1°C))  
0.1°F/°C

Resolution:

#### Humidity

Measuring Range:

5 to 95% RH

Accuracy:

>70%RH: ±(3% rdg + 1%RH)  
<70%RH: ±3%RH

Resolution:

0.1% RH

#### Light

Measuring Ranges:

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

Accuracy:

±(5% rdg ± 8 dgt)

Resolution:

1 Lux/0.1 Ft-cd

### TECHNICAL DATA



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### TECHNICAL DATA

#### Sound (Optional, R4700SD-SOUND Adapter Sold Separately)

|                                    |                                                                                                   |
|------------------------------------|---------------------------------------------------------------------------------------------------|
| Measuring Ranges:                  | 30 to 80dB<br>50 to 100dB<br>80 to 130dB                                                          |
| Accuracy:                          | Basic Accuracy of $\pm 3.5$ dB                                                                    |
| Resolution:                        | 1 dB                                                                                              |
| <b>General Specifications</b>      |                                                                                                   |
| Response Time:                     | 1 second                                                                                          |
| 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<br>and Date Stamp: | Yes                                                                                               |
| Selectable Sampling<br>Rate:       | Yes (1, 2, 5, 10, 30, 60, 120,<br>300, 600, 1800, 3600 seconds)                                   |
| External Memory:                   | Yes, expandable up to 16GB<br>with SD card (optional)                                             |
| Auto Shut-off:                     | Yes (after 10 minutes/off)                                                                        |
| Kick Stand:                        | Yes                                                                                               |
| Tripod Mountable:                  | Yes                                                                                               |
| Low Battery Indicator:             | Yes                                                                                               |
| Power Supply:                      | 6 x AA batteries or<br>AC Adapter (optional)                                                      |
| Data Output:                       | Yes (RS-232)                                                                                      |
| Product Certifications:            | CE                                                                                                |
| Operating Temperature:             | 32 to 122°F (0 to 50°C)                                                                           |
| Storage Temperature:               | 14 to 140°F (-10 to 60°C)                                                                         |
| Operating Humidity<br>Range:       | 10 to 85%                                                                                         |
| Dimensions:                        | Instrument: 5.3 x 2.4 x 1.3"<br>(135 x 60 x 33mm)<br>Probe: 4.1 x 1.8 x 1.1"<br>(105 x 46 x 29mm) |
| Weight:                            | 1.1lb (515g)                                                                                      |

#### R4700SD-KIT

Data Logging Environmental Meter with Power Adapter  
and SD Card

Includes:  
R4700SD Data Logging  
Environmental Meter; RSD-16GB  
16GB Micro SD Memory Card  
with adapter and RSD-ADP-NA  
AC Power Adapter



| Model                | Description                                                        |
|----------------------|--------------------------------------------------------------------|
| <b>R4700SD</b>       | Data Logging Environmental Meter                                   |
| <b>R4700SD-PROBE</b> | Replacement Probe for R4700SD                                      |
| <b>R4700SD-SOUND</b> | Sound Level Adaptor                                                |
| <b>R2920</b>         | Surface Thermocouple Probe                                         |
| <b>R2930</b>         | Right Angle Thermocouple Probe                                     |
| <b>R2940</b>         | Air/Gas Thermocouple Probe                                         |
| <b>R2950</b>         | Immersion Thermocouple Probe                                       |
| <b>R2960</b>         | Needle Tip Thermocouple Probe                                      |
| <b>TP-01</b>         | Beaded Thermocouple                                                |
| <b>R1500</b>         | Tripod                                                             |
| <b>RSD-ADP-NA</b>    | Power Supply, 110V                                                 |
| <b>RSD-ADP-EU</b>    | Power Supply, 220V                                                 |
| <b>CA-05A</b>        | Soft Carrying Case                                                 |
| <b>R8888</b>         | Hard Carrying Case                                                 |
| <b>SD-4GB</b>        | 4GB Class 4 SDHC Memory Card                                       |
| <b>RSD-16GB</b>      | 16GB Micro SD Memory Card<br>w/Adapter                             |
| <b>R4700SD-KIT</b>   | Data Logging Environmental Meter with<br>Power Adapter and SD Card |
| <b>R4700SD-NIST</b>  | Data Logging Environmental Meter<br>with NIST                      |