

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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Sound (Optional, R4700SD-SOUND Adapter Sold Separately)

Measuring Ranges:	30 to 80dB 50 to 100dB 80 to 130dB Basic Accuracy of ± 3.5 dB 1 dB
Accuracy:	
Resolution:	
General Specifications	
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 and Date Stamp:	Yes
Selectable Sampling Rate:	Yes (1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600 seconds)
External Memory:	Yes, expandable up to 16GB with SD card (optional)
SD Card Class Compatibility:	Class 4
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 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 Range:	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)

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



TECHNICAL DATA



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