REED INSTRUMENTS

Data Logging Environmental Meter

Model **R4700SD**

TECHNICAL DATA

Features

- Measures air velocity/temperature, ambient temperature, relative humidity, light, and contact temperature
- Measures sound level (dB) with R4700SD-SOUND (sold seperately)
- 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))
Resolution:	0.1°F/°C

Humidity

Measuring Range:	5 to 95% RH
Accuracy:	>70%RH: ±(3% rdg + 1%RH) <70%RH: ±3%RH
Resolution:	0.1% RH

Continued…

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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

Sound (Optional, R4700SD-SOUND Adapter Sold Separately)

Measuring Ranges:	30 to 80dB 50 to 100dB 80 to 130dB
Accuracy:	Basic Accuracy of ±3.5dB
Resolution:	1 dB

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)
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)

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	Deluxe Hard Carrying Case
SD-4GB	4GB Class 4 SDHC Memory Card
RSD-16GB	16GB Micro SD Memory Card w/Adapter
R4700SD-NIST	Data Logging Environmental Meter with NIST

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