

Comparison of REED Indoor Air Quality Meters



MODEL	R9905	R9920	R9910SD
TEMPERATURE			
Measuring Range	-4 to 140°F (-20 to 60°C)	32 to 122°F (0 to 50°C)	32 to 122.0°F (0 to 50.0°C); Dew Point: -13.5 to 120.1°F (-25.3 to 48.9°C); Wet Bulb: -6.9 to 122.0°F (-21.6 to 50°C)
Accuracy	±1.5°F (±0.8°C)	±1.8°F (0.8°C)	±1.5°F (±0.8°C)
Resolution	0.1°F (°C)	0.1°F (°C)	0.1°F (°C)
Sensor Type	Thermistor	Thermistor	Thermistor
HUMIDITY			
Measuring Range	0 to 100% RH	0 to 100% RH	5 to 95% RH
Accuracy	10 to 90% RH: ±3% RH; <10% RH & >90% RH: ±5% RH	20 to 80% RH: ±3.5% RH; <20% RH & >80% RH: ±5% RH	>70% RH: ±(3% rdg. + 1% RH); <70% RH: ±3% RH
Resolution	0.1% RH	0.1% RH	0.1% RH
Sensor Type	Thermistor	Thermistor	Thermistor
CARBON DIOXIDE			
Measuring Range	0 to 30,000 ppm	0 to 9999 ppm	0 to 4000 ppm
Accuracy	0 to 5000 ppm: ±(75 ppm +3% rdg) 5001 to 30,000 ppm: ±(150 ppm +5% rdg)	±5% rdg +75 ppm	±(5% rdg +2 ppm)
Resolution	1 ppm	1 ppm	1 ppm
Sensor Type	Nondispersive Infrared (NDIR)	Nondispersive Infrared (NDIR)	Galvanic cell
Warm-up Time	20s	20s	N/A
CARBON MONOXIDE			
Measuring Range	N/A	N/A	0 to 1000 ppm
Accuracy	N/A	N/A	±(5% rdg +2 ppm)
Resolution	N/A	N/A	1 ppm
Sensor Type	N/A	N/A	Galvanic cell
OXYGEN			
Measuring Range	N/A	N/A	0 to 30% O ₂
Accuracy	N/A	N/A	±(1% + 0.2% O ₂)
Resolution	N/A	N/A	0.1% O ₂
Sensor Type	N/A	N/A	Galvanic cell
GENERAL SPECIFICATIONS			
Display	LCD	7" (178mm) high-resolution color TFT	4-digit dual LCD
Display Backlight	Yes	Yes	Yes
Adjustable Brightness	N/A	Yes	N/A
Display Resolution	N/A	1024 x 600 pixels	N/A
°F/°C Switchable	Yes	Yes	Yes
Response Time	2 sec.	≤ 2 sec.	1 sec.
Data Hold	Yes	N/A	Yes
Min	Yes	Yes	Yes
Max	Yes	Yes	Yes
Avg	Yes	N/A	N/A
Alarm Threshold	User adjustable	User adjustable	<18% O ₂
CO ₂ Short Term Exposure Limit (STEL)	Yes (15 min)	N/A	N/A
CO ₂ Time Weighted Average (TWA)	Yes (8 hr)	N/A	N/A
Datalogging Capabilities	Yes	Yes	Yes
Real-Time Clock and Date Stamp	Yes	Yes	Yes
Selectable Sampling Rate	Between 1s and 60m59s	Between 1 sec and 24 hrs	1 sec to 8 hrs, 59 min and 59 sec
Memory	Yes, Internal (32,000 datapoints)	Yes, Internal (16 GB)	Yes, external up to 16GB with SD card (optional)
Settable Alarms	Yes (Low and High)	Yes (Low and High)	Yes
Auto Shut-off	Yes (adjustable)	N/A	Yes (after 10 mins)
Kick Stand	Yes	Yes	Yes
Tripod Mountable	N/A	N/A	Yes
Wall Mountable	N/A	Yes (bracket included)	N/A
Low Battery Indicator	Yes	Yes	Yes
Power Supply	9V Battery	3000mAh Rechargeable Li-ion Battery/Power Adapter	6 x AA Batteries or AC Adapter (optional)
Battery Life	Approx. 10 hours (continuous use)	Approx. 2 hours	Sample Rate Dependent
Charge Time	N/A	Approx. 9 hours	N/A
Data Output	Yes (via software)	N/A	Yes (via RS-232)
PC Connectivity	USB	USB Cable (Type-C)	N/A
Software Compatability	Windows 7/8/10/11	N/A	N/A
USB Cable Length	N/A	10 ft (3m)	N/A
Product Certifications	CE	CE	CE
Operating Temperature	32 to 122°F (0 to 50°C)	14 to 104°F (10 to 40°C)	32 to 122°F (0 to 50°C)
Storage Temperature	-44 to 140°F (-20 to 60°C)	14 to 104°F (10 to 40°C)	14 to 140°F (-10 to 60°C)
Operating Humidity	10 to 90% RH	0 to 100% RH	10 to 85% RH
Operating Altitude	6561' (2000m)	6561' (2000m)	6561' (2000m)
Dimensions	11.2 x 2.6 x 1.5" (284 x 65 x 39mm)	7.8 x 4.6 x 1" (198 x 118 x 25.7mm)	Instrument: 7.0 x 2.7 x 1.8" (177 x 68 x 45mm) HR Probe Length: 7.8" (197mm); CO Probe Length: 5.9" (150mm) O ₂ Probe Length: 5.9" (150mm) CO ₂ Probe Length: 7.5" (190mm)
Weight	10.7oz (304g)	12.9oz (365g)	0.8 lb (350g)

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