



RD500

Typical CWA

GB Sarin	0.3 mg/m ³ , ≤20 s
HD Distilled mustard	3 mg/m ³ , ≤20 s
VX	0.3 mg/m ³ , ≤20 s
GD Soman	0.3 mg/m ³ , ≤20 s



Temperature Display Unit

Recovery time	≤120 s
Recognition accuracy	≥90%
Weight	≤380 g
Dimensions	100 mm×80mm×40 mm
Temperature range	Operation: -40°C to 60°C; Storage: -45°C to 70°C
Alarm modes	Audio/light/vibration/WLAN/Bluetooth
Ingress protection	IP65
Power supply	18650 battery or Type-C
Power consumption	≤1W
Battery life	Up to 12 hours
Sensing technology	Surface acoustic wave



RD50

Temperature Sensor

Measurement method	Contact
Temperature range	-25°C to 125°C (expandable to ≤250°C)
Accuracy	±2°C
Dimensions	Tuning fork: 40mm height; Strap-on: 22mm height



Reading Antenna

Dimensions	Flat panel: 248mm × 64mm × 26mm
Operating temperature	-40°C to 70°C
Operating frequency	438MHz or 463MHz
Mounting	Magnetic base for fixation



Temperature Display Unit

Communication interface	COM1: RS232/RS485/RS422
Power input	DC24V 3A
Screen size	4.3-inch TFT
Mounting	Embedded; cutout size: 119mm × 93mm (±0.5mm)
System Certification	Certified by China Electric Power Research Institute

Temperature Reader

Operating temperature	-25°C to 70°C
Communication interfaces	Downlink (to sensor): Low-power wireless; Uplink (to terminal): RS485, reserved TL/EX interface
Sampling frequency	1–10 seconds
Power supply	AC/DC 100–240V
Power	<4W
Dimensions	115mm × 84mm × 50mm
Wireless transmission range	≤2.5m (adjustable based on reader power)
Wireless frequency range	426–449MHz or 451–474MHz



RD160



Ethanol Concentration Sensor

Measurement range	0–40 vol. %
Supply voltage	12V DC (9–16V)
Output signal type	PWM
Data collector Weight	160 g
Power Cable Weight	100 g
Dimensions	62mm (W) × 49.5mm (H) × 21mm (D)
Operating temperature	-35°C to +85°C
Storage temperature	-40°C to +105°C
Operating humidity	98% (+25°C)
Storage humidity	95% (+40°C)