



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