

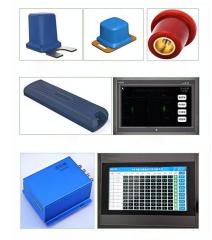
RD50

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 |