

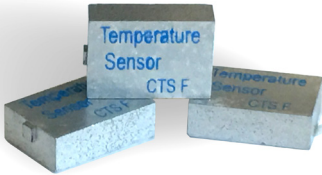
Wireless Temperature Sensor

Rugged for on-metal applications

Ihr autorisierter Distributor:

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RFM3254

APPLICATIONS

- Switchgear contactor points
- Electric busbar monitoring
- Predictive maintenance
- Monitor electric motors
- Monitor HVAC efficiency
- Monitor AC switchgear

KEY FEATURES

- Normal temperature range
-40 °C to +85 °C
- High-temperature alarm
up to +125 °C
- Powered by Magnus® S3
- Sensor size
13.5 x 9.1 x 4.3 mm
- Battery-free design
- Adhesive backing

Battery-free equipment monitoring

The RFM3254 is a wireless battery-free temperature sensor. This rugged sensor is designed to switchgear contactor points, busbars and equipment temperatures in the harsh and extreme environments. Other uses include electric motor protection, bearing temperature monitoring, heating and cooling equipment (HVAC) efficiency monitoring and other applications where metal surfaces are common.

Wireless temperature sensing

The RFM3254 has a normal operating temperature range of -40 °C to +85 °C. This covers the typical operating temperatures of most equipment over a range of environmental operating conditions. The RFM3254 reports temperatures beyond its normal operating range to as high as +125 °C, although prolonged operation at such an elevated temperature is not recommended.

Rugged design for use on metal and equipment

The RFM3254 is built with a robust composite antenna and is ideal for harsh environments subject to temperature extremes and the elements. The integrated RF antenna harvests energy for the temperature sensing function, as well as communicates with a RAIN/UHF compliant reader. The integrated antenna is suitable for use on metal surfaces that might otherwise adversely affect wireless/RF communication range.

Compliance

The RFM3254 is available in FCC and EU/ETSI frequency ranges. The RFM3254 requires a RAIN/UHF compliant reader. These sensors can be purchased separately or as part of a system.



RFM3254 Performance Data

Rugged temperature sensor for on-metal and industrial applications

| PARAMETER | VALUE |
|--------------------------|--|
| Normal temperature range | -40 °C to +85 °C |
| High-temperature alarm | Up to +125 °C |
| Compatible standards | EPC class 1 gen 2 v2.0.1 ISO 18000-6C |
| Integrated circuit | Powered by Magnus® S3 |
| TID memory | 64-bits |
| EPC memory | 160-bits supporting up to 128-bit EPC |
| User memory | 128-bits |
| Sensor Size | 13.5 x 9.1 x 4.3 mm |
| Adhesive | Self-stick with easy release tab |
| Shipment method | Vacuum packed tray |
| Minimum order quantity | 5 pc MOQ |
| Ordering information | RFM3254-BFS (FCC 902 to 928 MHz) RFM3254-BES (ETSI 865.6 MHz to 867.6MHz) |

