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## Oil temperature sensor



An NTC thermistor is used to measure the oil temperature. A thermistor is a resistor used to measure a change in temperature via the related change in resistance. For an NTC (negative temperature coefficient) thermistor, the resistance decreases with increasing temperature.

A power supply is required, usually 5 volts fed through a load resistance to limit the current inside the sensor to 1 mA. PT100 or PT1000 sensors are also available to provide a faster response and higher resolution and accuracy.

Electricfil solution - ready technologies

## Characteristics

- Temperatures -40°C to +180°C
- High accuracy ( $\pm 1^\circ\text{C}$  at 110°C)
- Optimized response time
- Current draw < 1 mA
- Interface: 2-wire, PWM or analog output

## Electricfil knowhow

- Custom solutions for outstanding performance
- Integrated electronic functions including signal processing
- Compatibility with severe immersion tests
- More than 15 years of experience to meet all special needs
- Integration of temperature and speed measurements in a single sensor

## Application domains

Transmission

[Clutch  
actuation control](#)

[Gear-shift control](#)