

TTLM



DESCRIPTION

The TTLM series is an integrated-circuit based temperature transducer that outputs voltage proportional to the Centigrade temperature or Kelvin temperature. The TTLM is a very low power device which is why it has very low self heating of less than 0.1°C in still air. Its compact size and amplified output are ideal for mobile equipment or engine monitoring applications.

FEATURES

- Rated for -67°F to 302°F (-55°C to 150°C)
 - Less than 100 µA Current Drain
- Low self-heating
- Sensing Element: Precision IC Temperature Sensor

APPLICATIONS

- Mobile equipment
- Hydraulic power units
- Lubrication system
- Engine Oil & Coolant Temp

Specifications		
	TTLM1	TTLM2
Temperature Range	32°F to 212°F (0°C to 100°C)	-67°F to 302°F (-55°C to 150°C)
Accuracy	Max +/- 2.7°F at 77°F +/- 1.5°C at 25 °C	Max +/-5.4°F at 77°F +/- 3°C at 25°C
Ambient Temperature Range	-40°F to 257°F (-40°C to 125°C)	-67°F to 257°F (-55°C to 125°C)
Supply Voltage / Current	8 - 30 VDC	12 - 24 VDC* Current Limited. See equation (1)
Output Voltage Range	0.02 to 1V	2.18 to 4.23V
Output Sensitivity	10 mV/°C	10 mV/°K
Output Load Resistance	Min 10kΩ	Min 10kΩ
Electrical Connection	Deutsch DTM04-3P	Deutsch DTM04-3P
Wire Protection	Nylon Split Loom (0.38 in) / Ø 9.9mm)	Nylon Split Loom (0.38 in) / 9.9mm)
IP Rating	IP 65	IP 65
Housing Material	Brass	Brass
Pressure Rating	1800 psi (124 Bar)	1800 psi (124 Bar)
Probe Diameter	7 mm (0.28″)	7 mm (0.28″)

*Must be powered with a constant current source. The current source setting must consider the current in the sensor and the current in the load resistance.

Dimensions





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