



Overview

Description

A thermistor style heavy-duty analog temperature sensor with a padded resistor for improved linearity of the input curve. This steady-state sensor is intended for use in demanding industrial and off-highway equipment applications.

Features

- Thermistor technology for low cost and reliability
- Rugged design for durability in harsh conditions
- Pigtail with connector for installation in tight places
- Stainless steel body

Ratings

Performance

Sensing temperature	-40 to 150 °C (-40 to 300 °F)
Output signal	5428 to 436 ohm
Accuracy	±2 °C (±3.6 °F) - Note: from 30 to 70 °C (86 to 158 °F)
Sensing current	<10 mA - Note: at 25 °C (77 °F)
Response	<30 s - Note: 10 to 90%
Short circuit protection	Short to +batt may cause probe failure
Error handling	will sense open or short (> 7kohm or <400 ohm - Note: 10 to 90%

Environmental Ratings

Operating pressure	10 bar (145 psi)
Vibration	5 Grms - Note: 20 to 20 000 Hz
Ingress protection	IP67

Installation Requirements

Connector	Deutsch DTM04-2P on pigtail
Mating connector	Deutsch DTM06-2S
Port	SAE #6 ORB, 9/16-18 UNF-2A
Installation torque	48 ±5 N-m (35 ±3.5 ft-lb)



Performance

Temp (°C)	Resistance (ohm)
-40	5427.9
-30	5380.8
-20	5305.4
-10	5190.3
0	5022.5
10	4790.2
20	4485.7
30	4112.4
40	3682.4
50	3219.7
60	2752.5
70	2307.3
80	1904.5
90	1554.2
100	1259.0
110	1016.2
120	819.7
130	662.0
140	536.3
150	436.3

To Order

Temperature sensor: Model ERT120-R-LD-06 Part No. 4206200

Mating connector kit: Deutsch DTM06-2S Part No. 4001970