# TTG





## DESCRIPTION

The temperature transmitter TTG is well-suited for use in OEM applications, mobile or industrial. Its high EMI resistance, integrated connectors, stainless steel construction, and high shock and vibration specifications were designed to ensure reliable operation out in the field. Furthermore, the industry-standard analog outputs allows ease of integration while the ability to configure the measuring range allows for optimal accuracy built for your system.

## FEATURES

- Stainless steel construction
- Easy to install
- Robust design
- Customizable outputs per request

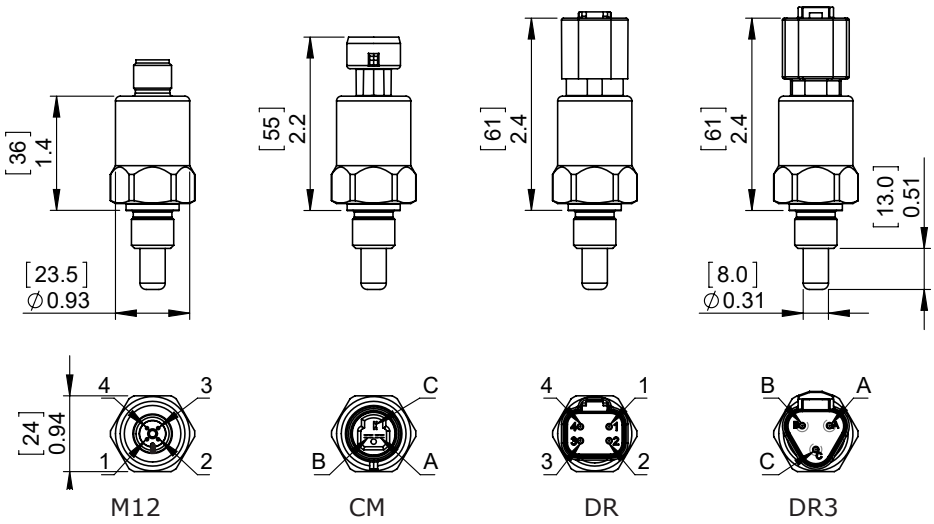
## APPLICATIONS

- Hydraulic systems
- Mobile Equipment
- Industrial machinery and machine tools
- Fan cooling circuits

| | | |
|---|---|---|
| Accuracy (Measuring Element) | Farenheit | Celsius |
| | Between -4°F to 221°F : +/- 0.81°F | Between -20°C to 105°C: +/-0.45°C |
| | Below -4°F or above 221°F: +/-1.62°F | Below -20°C or above 105°C: +/-0.90°C |
| Accuracy (Electronics) | Ratiometric Output: +/-0.2% FS<br>Voltage Output: +/-0.3% FS<br>Current Output: +/-0.5% FS | |
| Ambient Temperature Range | -58°F to 257°F (-50°C to 125°C) | |
| Media Temperature Range | No Oring: -58°F to 302°F (-50°C to 150°C)<br>With Viton Oring: -13°F to 302°F (-25°C to 150°C)<br>With HNBR Oring: -40°F to 302°F (-40°C to 150°C) | |
| Max Pressure | 8700 psi (600 Bar) | |
| Protection | Overvoltage | |
| Ingress Protection | IP67 | |
| Wetted Parts | Housing: 316SS<br>Oring: Viton or HNBR if applicable | |
| Supply Voltage | Output | Supply |
| | 4 - 20 mA | 8 - 30 VDC |
| | 0 - 10V | 12.5 - 30 VDC |
| | 0.5 - 4.5V (Ratiometric) | 5V +/-0.5 |
| | 0.5 - 4.5V | 8 - 30 VDC |
| Power On Time | < 1s | |
| Current Consumption | < 5 mA (for Voltage output options) | |
| Compliance | IEC/EN 61000-4-3(2006)<br>IEC/EN 61000-4-4(2004)<br>IEC/EN 61000-4-5(2005)<br>IEC/EN 61000-4-6(2006)<br>ROHS | |
| Weight | 0.15 lbs (0.07kg) | |

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## Dimensions




| Connector | Output | | | | |
|---|---|---|---|---|---|
| | 4 - 20 mA | | Voltage | | |
| | Supply + | Supply - | Supply + | Common | Output + |
| M12 | 1 | 3 | 1 | 3 | 4 |
| DR | 2 | 1 | 2 | 1 | 4 |
| DR3 | A | B | A | B | C |
| CM | B | A | B | A | C |

## Ordering Information

| 1 | | 2 | | 3 | | 4 | | 5 |
|---|---|---|---|---|---|---|---|---|
| TTG | - | N40/125C | - | 2 | - | M12 | - | 4M08 | - | T1 |

**Model:**

**TTG**

**Temperature Range:**

- **N40/125C** - -40°C to 125°C (-40°F to 257°F)
- **N25/125C** - -25°C to 125°C (-13°F to 257°F)
- **N25/100C** - -25°C to 100°C (-13°C to 212°F)
- **0/100C** - 0°C to 100°C (32°F to 212°F)
- **0/300F*** - 0°F to 300°F (-17°C to 149°C)
- **N50/150C*** - -50°C to 150°C (-58°F to 302°F)

**Output:**

- **2** - 4 -20 mA (2 wire)
- **3** - 0 - 10 V (3 wire)
- **4** - 0.5 - 4.5 V (ratiometric)
- **7** - 0.5 - 4.5 V (3 wire)

**Electrical Connection:**

- **M12** - M12, 4 pin
- **DR** - Deutsch Receptacle DT04-4P
- **DR3** - Deutsch Receptacle DT04-3P
- **CM** - Packard, Metripack 150 Series (P2S)

**Process Connection & Seal Material:**

- **4M08** - 1/4" NPT male 1/2" probe
- **4G08V** - 1/4" BSPP male, G1/4 , Type E, Viton 1/2" probe
- **6S08V** - 9/16-18 SAE male, with O-ring seal, Viton 1/2" probe
- **6S08H** - 9/16-18 SAE male, with O-ring seal, HNBR 1/2" probe

**Accuracy:**

- **T1** - +/- 0.45°C*

- Maximum temperature exposure limit of electronics is 257°F
- Other material and options available upon request.
- Custom design avaiblable. Please consult factory.

** Please review Specifications section for Accuracy details for this model series*

Note: Please see page 69 for other available options