

Technical Specifications

Sensing Element :	RTD, Type Pt1000 Ohm, Class A
Measuring Temperature Ranges :	-50°C to 200°C (-58°C to 392°F) or -200°C to 600°C (-328°F to 1112°F) depending model.
Accuracy :	± (0.2 + 0.002 x T) °C, std. factory, ± (0.36 + 0.002 x T-32) °F, std. factory, ± (0.2 + 0.001 x T) °C, option, ± (0.36 + 0.001 x T-32) °F, option For high accuracy measurement see manual
Refresh Rate :	3 seconds
Display :	4-digit LCD, 1/2" high (12.7 mm), decimal point selectable by software
Display Resolution :	See table 1
RFI effect :	1 % or less typical
Temp. Effect :	<0.01 % FS/°C
Ambient Temp. Range :	0°C to 50°C (32°F to 122°F)
Storage Temp. Range :	-20°C to 70°C (-4°F to 158°F)
Max. Pressure :	500 PSIG (on probe)
Housing Material :	Stainless steel 316
Probe Material :	Stainless steel 316 standard
Standard Surface Finish : Code "SF"	Maximum Ra of 32 µ-in (0.8µm) or better as per 3-A 74-06 Sanitary only
Pharmaceutical Surface Finish : Code "F1"	Per ASME BPE 2014 SF-1 20 µ-in (0.5µm) Ra max. without electro polish
Pharmaceutical Surface Finish : Code "F4"	Per ASME BPE 2014 SF-4 15 µ-in (0.4µm) Ra max. with electro polish
Cable Materials :	PVC, Silicone, Teflon®, Teflon® with SS armor covered with polyolefin or Teflon® shrink
Weight :	350 grams (12 ounces)
Environmental Protection :	NEMA 4X/IP 67
Power :	Lithium Battery (3.6 V)
Battery Life :	5 years min. in continuous mode
Electrical Connection :	Micro-DC male plug or cable (with optional outputs only)
RTD Output Option:	RTD, Type Pt100 or Pt1000 Ohm, 3-wire, Class A DIN IEC 60715
Communication Option:	Communication option allows qualified users to calibrate, change measuring units and resolution. DTG-PKIT-3 required, order separately.
Shipping Volume :	Imperial Volume = 3.5" W X 3" H X (4.7" + L "of probe) Metric Volume = 9.0cm W X 8cm H X (12 cm + Lcm of probe)

Table 1: Display Resolution

Model Range	Factory Settings		Optional Settings			
	Setting	Viewable Range	Setting	Viewable Range	Setting	Viewable Range
-50°C to 200°C (-58°F to 392°F)	0.1	-58.0 to 392.0	0.01	-58.00 to 99.99	1	-58 to 392
-200°C to 600°C (-328°F to 1112°F)	1	-328 to 1112	0.01	-99.99 to 99.99	1	-328 to 1112

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Installation Considerations

Installation requirements of the DTG are similar to those of the temperature sensor assemblies with a head mounted hockey puck transmitter and display. If the temperature of the electronics in the housing exceeds 50°C, permanent damage to the DTG will occur. In all applications, especially when they exceed 200°C, careful attention must be placed on correct installation. For these applications, a remote probe wall mount unit or remote probe panel mount unit, may be a better choice. It is the installer's, customer's and/or end user's responsibility to make sure that this over exposure to temperature does not occur due to improper installation.