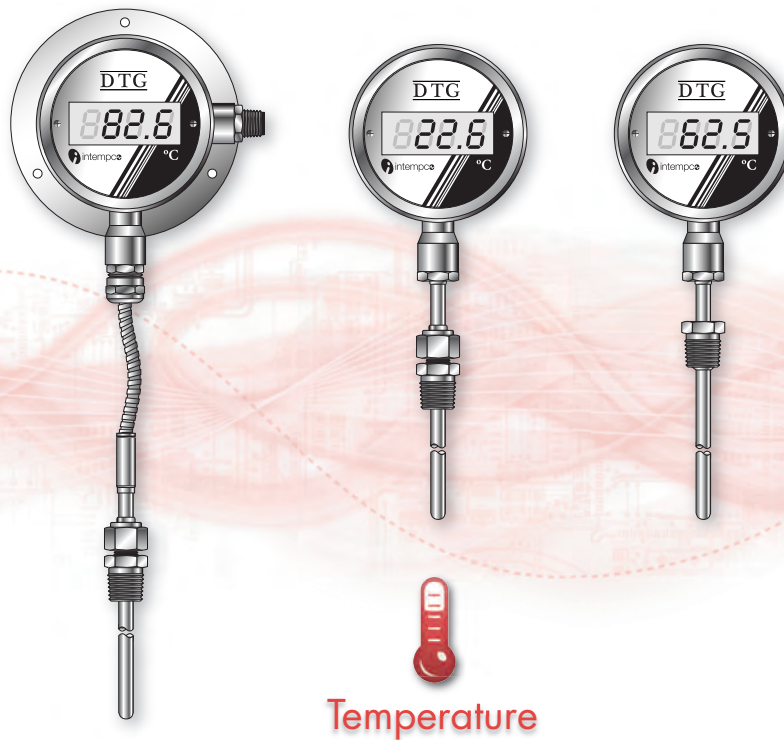


DTG SERIES
Industrial Digital Temperature Gauges



Manufacturer of Superior Quality Instrumentation



Temperature

- Large 4-digit Red LED Display
-
- 4-20 mA Programmable Linearized Signal Output
-
- Field Re-programmable with PC Interface Module and Software
-
- Easy Installation with Various Mounting Configurations
-
- All Stainless Steel 316 Construction

Product Features

- Large 4-digit red LED display
- Field re-programmable with optional PC interface module and software
- Security password and tracking protection for re-programming and re-calibration
- 4-20 mA programmable linearized signal output
- Utilizes self-calibration feature for accurate and stable performance
- Utilizes Pt-100 Ohm RTD Class A element for temperature sensing
- Micro M12 male plug or cable gland for electrical connection
- IP 65 / NEMA 4 rated environmental protection
- All stainless steel 316 construction
- Easy installation with various mounting configurations

Description

The DTG01 series Digital Temperature Gauges are a complete solution for most industrial temperature monitoring and temperature indicating applications. Of high quality construction, these gauges features a bright and large 4-digit red LED display with an analog 4-20 mA output. Based on Intempco's patented MIST™ technology, they are designed for optimum accuracy and performance. The series DTG01 are an ideal replacement for bi-metal, liquid bulb and gas thermometers.

The DTG01 can be factory calibrated to customer specified temperature range. As with any other MIST™ series patented technology sensor, the DTG's built-in programmable transmitter can be re-scaled and re-calibrated using the optional interface module and software. The DTG arrives factory scaled and calibrated to the customer's specified temperature range. No costly field calibration is required. If the application changes, the DTG can be re-scaled at any range within the sensor limits while maintaining its accuracy. Reprogramming is done with the optional PC interface module and software.

Housing, probe and fitting material is all fabricated from stainless steel 316. DTG is rated to NEMA 4X (IP65). Many mounting configurations are available to meet customer requirements. Standard extension cables offered are PVC or Silicon insulated wires. Some models are available with M12 Micro-Male Connector.

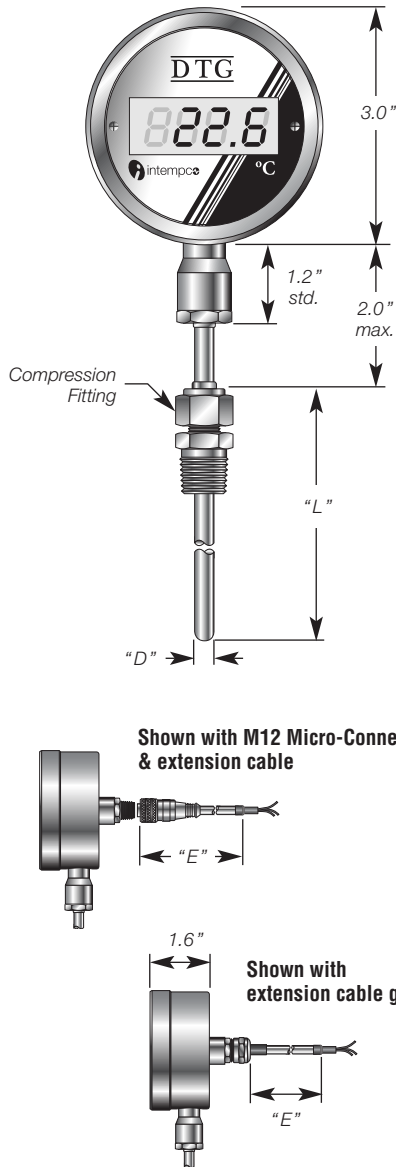
Certain features of this product are covered under US Patent no.: 7,233,014



Application / Process Notes

- Replacement for Bi-Metal, Liquid Bulb and Glass Thermometers
- Pharmaceutical
- Food Preparation
- Utilities and Municipal
- Refineries
- Chemical and Petrochemical Plants
- Paper Mills
- Hydraulics

DTG03 Top Mount w/Adjustable Compression Fitting



Custom Builder

MODEL 1 2 3 4 5 6 7

DTG03 - - - - - - -

BOX1 CODE	Calibrated Temperature Range
05	0°C to 50°C (32/122°F)
10	0°C to 100°C (32/212°F)
15	0°C to 150°C (32/302°F)
20	0°C to 200°C (32/392°F)
55	-50°C to 50°C (-58/122°F)
51	-50°C to 150°C (-58/302°F)
52	-50°C to 200°C (-58/392°F)
L*	-50°C to 200°C (-58/392°F)

* Code **L** DTG is not factory programmed. Requires customer set-up using the **DTG PKIT**.

Notes:

- DTG sensors are factory calibrated to accuracy of $\pm 0.25\%$ of span or better.
- For non-standard temperature ranges indicate desired value in °C or °F in Box1 or see website www.intempco.com.
Ex.: DTG03-(40/120°C)-CU...
- Std. display is in °C. Add suffix **F** to display in °F.
Ex.: **10F**
- Order **DTG PKIT** to set-up, re-program and re-calibrate in-house.

BOX2 CODE	Output
CU	4-20 mA source 3-wire, upscale burnout
CD	4-20 mA source 3-wire, downscale burnout

BOX3 CODE	Probe Dia. "D" & Mat'l
4S	1/4", 316 Stainless steel
6S	3/8", 316 Stainless steel
8S	1/2", 316 Stainless steel

BOX4 CODE	Probe Length "L"
---	In 0.1" increments Ex.: 065 = 6.5" long, 120 = 12" long

BOX5 CODE	Fitting Type
N	None
D	1/4" NPT (max. probe .312" dia.)
F	3/8" NPT (max. probe .375" dia.)
H	1/2" NPT
L	3/4" NPT

Note: Fitting material is stainless steel SS316

BOX6 CODE	Extension Wire Type
MC*	M12 Micro-Male Connector
PV	PVC Insulation, 80°C (176°F) max.
SL	Silicone Insulation, 180°C (356°F) max.

* If code **MC** is selected, place letter **N** in Box 7. Order M12 cables separately.

BOX7 CODE	Lead Wire Length "E"
---	In Inches Ex.: 060 = 60" long

Stock Items

- DTG03 w/LED display, 4-20 mA output
- Factory calibrated 4-20 mA output to a customer specified temperature range with an accuracy of $\pm 0.25\%$ of range
- Operating temperature range of -50 to 200°C (-58 to 392°F)
- Order DTG PKIT programming kit to re-program and re-calibrate in-house.
- Probe 1/4" diameter stainless 316
- Adjustable compression fitting not included, order separately
- Cable supplied is a PVC jacketed 22 AWG stranded 5-conductor, copper tin plated, 10 ft (3m) long
- Probe lengths available are 6", 9" and 12"

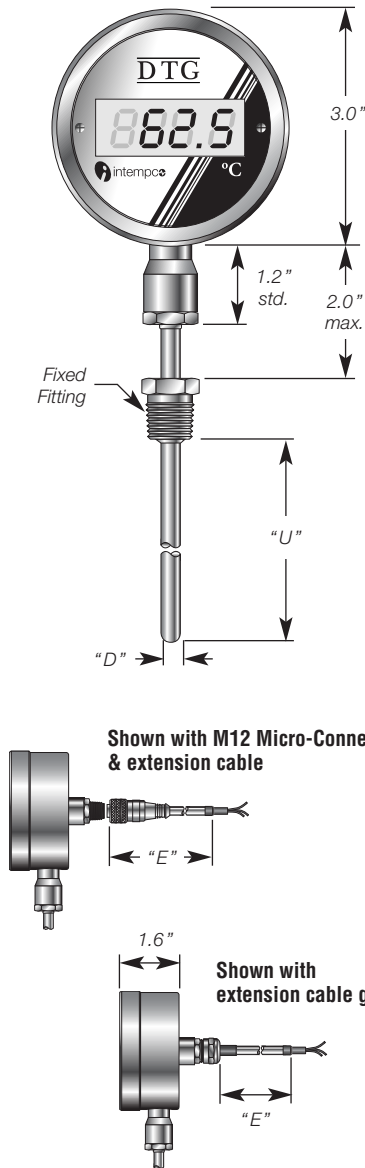
To order a DTG with 9" probe and 4-20 mA output calibrated to -25°C to 125°C, display in °C, specify the inventory number and temperature range, ex.: DTG03A-L-090 (-25/125°C) on your order. To display in °F, specify range in °F within the operating range of -58 to 392°F, ex.: DTG03A-L-090 (32/212°F).

Ordering Information

Catalog Number	Inventory Number	Probe Length "L"
DTG03-L-CU-4S-060-N-PV-120	DTG03A-L-060	6.0"
DTG03-L-CU-4S-090-N-PV-120	DTG03A-L-090	9.0"
DTG03-L-CU-4S-120-N-PV-120	DTG03A-L-120	12.0"

DTG04 Top Mount w/Fixed Welded Fitting

Custom Builder



MODEL 1 2 3 4 5 6 7

DTG04 - - - - - - -

BOX1 CODE	Calibrated Temperature Range
05	0°C to 50°C (32/122°F)
10	0°C to 100°C (32/212°F)
15	0°C to 150°C (32/302°F)
20	0°C to 200°C (32/392°F)
55	-50°C to 50°C (-58/122°F)
51	-50°C to 150°C (-58/302°F)
52	-50°C to 200°C (-58/392°F)
L*	-50°C to 200°C (-58/392°F)

BOX3 CODE	Probe Dia. "D" & Mat'l
4S	1/4", 316 Stainless steel
6S	3/8", 316 Stainless steel
8S	1/2", 316 Stainless steel

BOX4 CODE	Immersion Length "U"
---	In 0.1" increments Ex.: 065=6.5" long, 120=12" long

* Code **L** DTG is not factory programmed. Requires customer set-up using the **DTG PKIT**.

Notes:

- DTG sensors are factory calibrated to accuracy of $\pm 0.25\%$ of span or better.
- For non-standard temperature ranges indicate desired value in °C or °F in Box1 or see website www.intempco.com.
Ex.: DTG04-(40/120°C)-CU...
- Std. display is in °C. Add suffix **F** to display in °F.
Ex.: **10F**
- Order **DTG PKIT** to set-up, re-program and re-calibrate in-house.

BOX5 CODE	Fitting Type
D	1/4" NPT (max. probe .312" dia.)
F	3/8" NPT (max. probe .375" dia.)
H	1/2" NPT
L	3/4" NPT

Note: Fitting material is stainless steel SS316

BOX2 CODE	Output
CU	4-20mA source 3-wire, upscale burnout
CD	4-20mA source 3-wire, downscale burnout

BOX6 CODE	Extension Wire Type
MC*	M12 Micro-Male Connector
PV	PVC Insulation, 80°C (176°F) max.
SL	Silicone Insulation, 180°C (356°F) max.

* If code **MC** is selected, place letter **N** in Box 7.
Order M12 cables separately.

BOX7 CODE	Lead Wire Length "E"
---	In Inches Ex.: 060=60" long

Stock Items

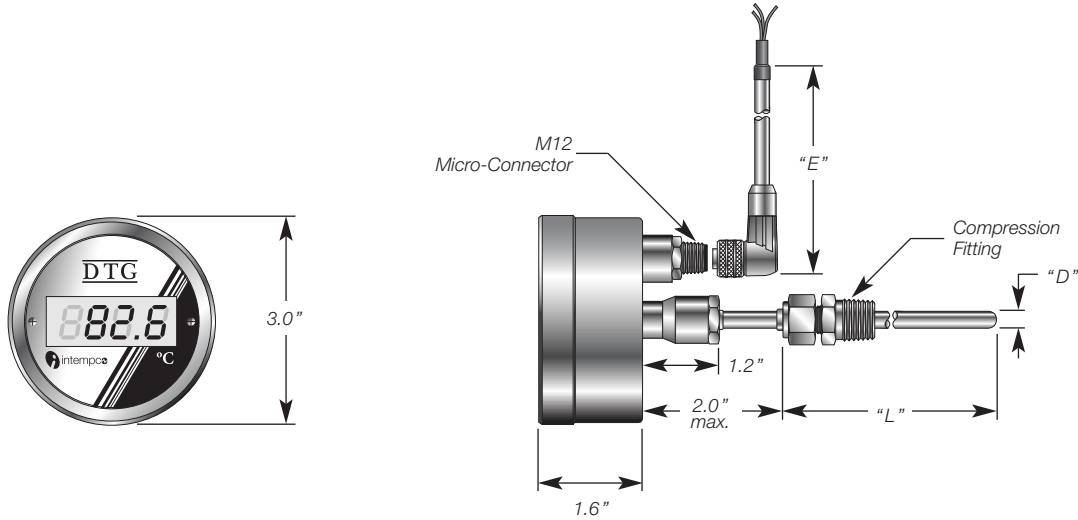
- DTG04 w/LED display, 4-20 mA output
- Factory calibrated 4-20 mA output to a customer specified temperature range with an accuracy of $\pm 0.25\%$ of range
- Operating temperature range of -50 to 200°C (-58 to 392°F)
- Order DTG PKIT programming kit to re-program and re-calibrate in-house.
- Probe 1/4" diameter stainless 316
- Adjustable compression fitting not included, order separately
- Cable supplied is a PVC jacketed 22AWG stranded 5-conductor, copper tin plated, 10ft (3m) long
- Probe lengths available are 6", 9" and 12"

To order a DTG with 9" probe and 4-20 mA output calibrated to -25°C to 125°C, display in °C, specify the inventory number and temperature range, ex.: DTG04A-L-090 (-25/125°C) on your order. To display in °F, specify range in °F within the operating range of -58 to 392°F, ex.: DTG04A-L-090 (32/212°F).

Ordering Information

Catalog Number	Inventory Number	Immersion Length "U"
DTG04-L-CU-4S-060-N-PV-120	DTG04A-L-060	6.0"
DTG04-L-CU-4S-090-N-PV-120	DTG04A-L-090	9.0"
DTG04-L-CU-4S-120-N-PV-120	DTG04A-L-120	12.0"

DTG07 Back Mount w/Adjustable Compression Fitting



Custom Builder

MODEL 1 2 3 4 5 6 7

DTG07 - - - - - - - -

BOX1 CODE	Calibrated Temperature Range
05	0°C to 50°C (32/122°F)
10	0°C to 100°C (32/212°F)
15	0°C to 150°C (32/302°F)
20	0°C to 200°C (32/392°F)
55	-50°C to 50°C (-58/122°F)
51	-50°C to 150°C (-58/302°F)
52	-50°C to 200°C (-58/392°F)
L*	-50°C to 200°C (-58/392°F)

* Code **L** DTG is not factory programmed. Requires customer set-up using the **DTG PKIT**.

Notes:

- DTG sensors are factory calibrated to accuracy of $\pm 0.25\%$ of span or better.
- For non-standard temperature ranges indicate desired value in °C or °F in Box1 or see website www.intempco.com.
Ex.: DTG07-(40/120°C)-CU...
- Std. display is in °C. Add suffix **F** to display in °F.
Ex.: **10F**
- Order **DTG PKIT** to set-up, re-program and re-calibrate in-house.

BOX2 CODE	Output
CU	4-20mA source 3-wire, upscale burnout
CD	4-20mA source 3-wire, downscale burnout

BOX3 CODE	Probe Dia. "D" & Mat'l
4S	1/4", 316 Stainless steel
6S	3/8", 316 Stainless steel
8S	1/2", 316 Stainless steel

BOX4 CODE	Probe Length "L"
---	In 0.1" increments Ex.: 065 =6.5" long, 120 =12" long

BOX5 CODE	Fitting Type
N	None
D	1/4" NPT (max. probe .312" dia.)
F	3/8" NPT (max. probe .375" dia.)
H	1/2" NPT
L	3/4" NPT

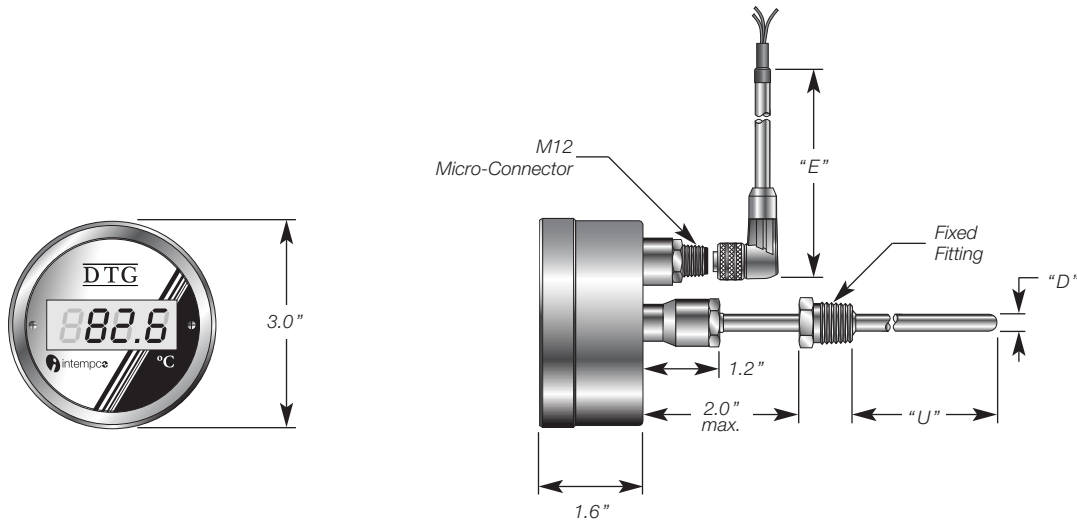
Note: Fitting material is stainless steel SS316

BOX6 CODE	Extension Wire Type
MC	M12 Micro-Male Connector

BOX7 CODE	Extension Cable Length "E"
N	None
B2	Right angle, 2 meters
B5	Right angle, 5 meters

Note: Cable insulation is PVC, 90°C (195°F) max.

DTG08 Back Mount w /Fixed Welded Fitting



Custom Builder

MODEL 1 2 3 4 5 6 7

DTG08 - - - - - - -

BOX1 CODE	Calibrated Temperature Range
05	0°C to 50°C (32/122°F)
10	0°C to 100°C (32/212°F)
15	0°C to 150°C (32/302°F)
20	0°C to 200°C (32/392°F)
55	-50°C to 50°C (-58/122°F)
51	-50°C to 150°C (-58/302°F)
52	-50°C to 200°C (-58/392°F)
L*	-50°C to 200°C (-58/392°F)

BOX2 CODE	Output
CU	4-20mA source 3-wire, upscale burnout
CD	4-20mA source 3-wire, downscale burnout

BOX5 CODE	Fitting Type
D	1/4" NPT (max. probe .312" dia.)
F	3/8" NPT (max. probe .375" dia.)
H	1/2" NPT
L	3/4" NPT

Note: Fitting material is stainless steel SS316

BOX3 CODE	Probe Dia. "D" & Mat'l
4S	1/4", 316 Stainless steel
6S	3/8", 316 Stainless steel
8S	1/2", 316 Stainless steel

BOX6 CODE	Extension Wire Type
MC	M12 Micro-Male Connector

BOX4 CODE	Immersion Length "U"
---	In 0.1" increments Ex.: 065 = 6.5" long, 120 = 12" long

BOX7 CODE	Extension Cable Length "E"
N	None
B2	Right angle, 2 meters
B5	Right angle, 5 meters

Note: Cable insulation is PVC, 90°C (195°F) max.

* Code **L** DTG is not factory programmed. Requires customer set-up using the **DTG PKIT**.

Notes:

- DTG sensors are factory calibrated to accuracy of $\pm 0.25\%$ of span or better.
- For non-standard temperature ranges indicate desired value in °C or °F in Box1 or see website www.intempco.com.
Ex.: DTG08-(40/120°C)-CU...
- Std. display is in °C. Add suffix **F** to display in °F.
Ex.: **10F**
- Order **DTG PKIT** to set-up, re-program and re-calibrate in-house.

Product Features

- *Large 4-digit red LED display*
- *Field re-programmable with optional PC interface module & software*
- *Security password and tracking protection for re-programming and re-calibration*
- *Optional 4-20 mA programmable linearized signal output*
- *Optional fully programmable switch output; relay or transistor*
- *Utilizes self-calibration feature for accurate and stable performance*
- *Utilizes Pt-100 Ohm RTD Class A element for temperature sensing*
- *Micro M12 male plug or cable gland for electrical connection*
- *IP 65 / NEMA 4 rated environmental protection*
- *All stainless steel 316 construction*
- *Easy installation with various mounting configurations*

Description

The Model DTG11, Digital Temperature Gauge, is a complete solution for most industrial temperature monitoring and temperature indicating applications. This gauge features a bright and large 4-digit red LED display, optional analog 4-20 mA output, optional switch output, and an optional RTD output. Utilizing Intempco's patented MIST technology and the self-calibration feature, DTG is designed for optimum accuracy and performance. The DTG is designed as a direct replacement for bi-metal, liquid bulb and glass thermometers.

DTG can be factory calibrated to customer specified temperature range, in units of Celsius or Fahrenheit. But the unique feature of the DTG is that it is field programmable. Process temperature or alarm change? No problem! Simply use DTG-PKIT interface module and re-range your DTG without the need to recalibrate and without the loss of accuracy. DTG is much more accurate than an RTD and a separate indicator/transmitter. When the DTG is re-scaled to a different temperature range, the calibrated default values are not lost. This gauge can be customer re-calibrated by performing one-point or two-point calibration using known temperature standards. This is where the DTG leaves the competition behind. Indicating temperature range, current output, switch set point, switching hysteresis, switch logic, damping and other features all programmable.

The DTG wetted parts, as well as the housing, are fabricated from 316 stainless construction. The probe is either of 1/4" or 3/8" diameter as standard. As an option, other diameters and materials are available. For electrical connection, a Micro-DC male plug or cable are available. The sensing element used is Pt-100 Ohm RTD accuracy to DIN EN 60751 Class A and the DTG can be made available with an additional 3-wire RTD output. This feature allows a single process connection to be used for indication of temperature and for remote indication, recording, or controlling. Each DTG has the part number, range and serial number marked on the transmitter housing.

If you require an accurate, stable and dependable digital thermometer, look no further. Model DTG11 is your solution.



Applications

- *Replacement for Bi-Metal, Liquid Bulb and Glass Thermometers*
- *Pharmaceutical*
- *Food Preparation*
- *Utilities and Municipal*
- *Refineries*
- *Chemical and Petrochemical Plants*
- *Paper Mills*
- *Hydraulics*

Custom Builder

MODEL 1 2 3 4 5 6 7 8 9 10 11 12

DTG11 - - - - - - - - **0** - - - - -

BOX1 CODE	Model Range
L	Low Temp. -50 to 200°C (-58/392°F)
H	High Temp. -200 to 600°C (-328/1112°F)

* Code **L** & **H** represent max. temperature limits of sensor construction..

BOX2 CODE	Output Type
0	None, indicator only
C1	4-20mA, source 3-wire
C2	4-20mA + Relay SPDT
C3	4-20mA + NPN Transistor
C4	4-20mA + PNP Transistor
C5	4-20mA + RTD 3-wire
D1	Relay SPDT
D2	NPN Transistor
D3	PNP Transistor
A3	Pt 100 Ohm @ 0°C (±0.15°C) α = 0.00385 DIN EN 60751 Class A (±0.06%), 3-wire

Notes:

- DTGs are factory calibrated to an accuracy of ±0.25% of span or better.
- For 4-20mA output temperature ranges, indicate desired values in °C or °F (display units) after the completed p/n. See web site www.intempco.com.
- For control/alarm setpoint output, indicate desired value in °C or °F (display units) after the completed p/n. See web site www.intempco.com.
- Order **DTG PKIT** to set-up, re-program and re-calibrate in the field.

Ex. DTG11-C2-D-S-065-N20-S12S-PV-060-SF-A
Range 4-20mA = 0/100°C Set point = 75°C

BOX3 CODE	Probe Diameter "D"	
D	1/4"	
F	3/8"	
H	1/2"	
CODE	Sheath O.D.	Tip O.D.
DB	1/4"	1/8"
FC	3/8"	3/16"
HC	1/2"	3/16"
HD	1/2"	1/4"
JD	5/8"	1/4"

Other diameters available. Consult factory.

BOX4 CODE	Probe Material
S	Stainless steel 316/316L

Other materials available. Consult factory.

BOX5 CODE	Immersion Length "U"
---	In 0.1" increments Ex.: 065 = 6.5" long

BOX6 CODE	Extension Length "C"
N --	In 0.1" increments (2.0" Std.) Ex.: N20 = 2.0" long

BOX8 CODE	Fitting Type
0	None
S**S	Adjustable fitting *
Ferrule material : S = Stainless steel* B = Brass* T = Teflon® * Not readjustable with metal ferrule Fitting material : S = Stainless steel B = Brass Ex.: T14B = Teflon® ferrule, 1/4" NPT, Brass fitting	
F**S	Fixed fitting
Process NPT size : ** 18 = 1/8" NPT 14 = 1/4" NPT 38 = 3/8" NPT 12 = 1/2" NPT 34 = 3/4" NPT 44 = 1" NPT	

BOX9 CODE	Extension Connector / Cable Type
MC	M12 Micro-Male Connector
PV	PVC insulation, 90°C (195°F) max.
SL	Silicone insulation, 180°C (356°F) max.
TF	Teflon® insulation, 200°C (392°F) max.
TA	Teflon® with SS armor, 200°C (392°F) max.
TP	Teflon® with SS armor and polyolefin shrink, 90°C (195°F) max.
TT	Teflon® with SS armor and Teflon® shrink, 200°C (392°F) max.

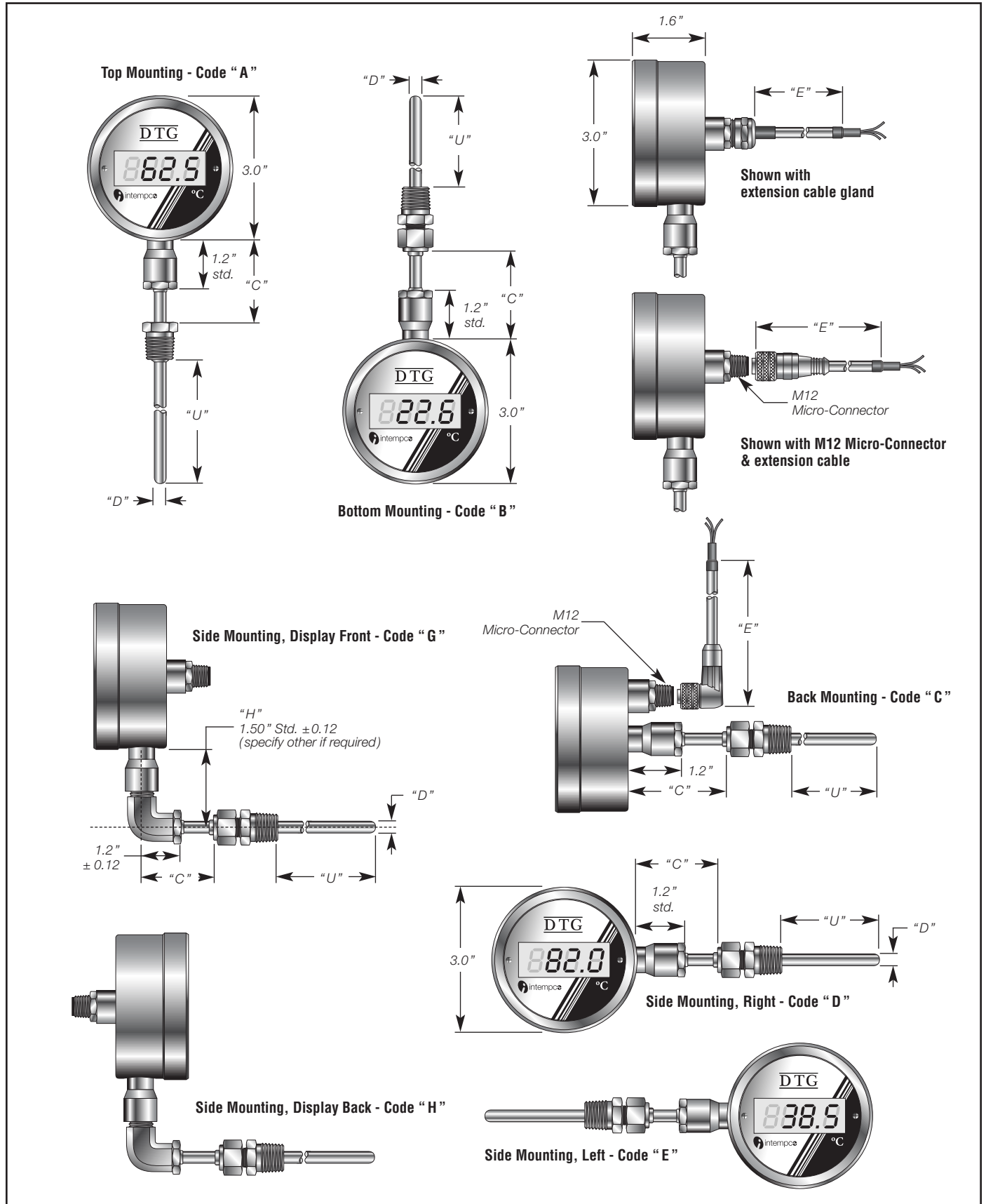
Note : 1. Leads "E" length 12" and less are single conductor Teflon® insulation, 22 AWG

BOX10 CODE	Extension Cable Length "E" (MC option)
N	None
A2	Straight, 2 meters
A5	Straight, 5 meters
B2	Right angle, 2 meters
B5	Right angle, 5 meters
BOX10 CODE	Extension Cable Length "E" (Cable option)
---	In inches Ex.: 060 = 60" long

BOX11 CODE	Surface Finish
SF	Standard, 32 Ra max.

BOX12 CODE	Mounting Options
A	Top Mounting
B	Bottom Mounting
C	Back Mounting
D	Side Mounting, right
E	Side Mounting, left
G	Side Mounting, Display Front
H	Side Mounting, Display Back

Dimensions & Mounting Options



Custom Builder

MODEL 1 2 3 4 5 6 7 8 9 10 11 12

DTG12 - - - - - - - - **0** - - - - -

BOX1 CODE	Model Range
L	Low Temp. -50 to 200°C (-58/392°F)
H	High Temp. -200 to 600°C (-328/1112°F)

* Code **L** & **H** represent max. temperature limits of sensor construction..

BOX2 CODE	Output Type
0	None, indicator only
C1	4-20mA, source 3-wire
C2	4-20mA + Relay SPDT
C3	4-20mA + NPN Transistor
C4	4-20mA + PNP Transistor
C5	4-20mA + RTD 3-wire
D1	Relay SPDT
D2	NPN Transistor
D3	PNP Transistor
A3	Pt100 Ohm @ 0°C (±0.15°C) α = 0.00385 DIN EN 60751 Class A (±0.06%), 3-wire

Notes:

- DTGs are factory calibrated to an accuracy of ±0.25% of span or better.
- For 4-20mA output temperature ranges, indicate desired values in °C or °F (display units) after the completed p/n. See web site www.intempco.com.
- For control/alarm setpoint output, indicate desired value in °C or °F (display units) after the completed p/n. See web site www.intempco.com.
- Order **DTG PKIT** to set-up, re-program and re-calibrate in the field.

Ex. DTG12-C2-D-S-065-N20-S12S-PV-060-SF-A
Range 4-20mA = 0/100°C Set point = 75°C

BOX3 CODE	Probe Diameter "D"	
D	1/4"	
F	3/8"	
H	1/2"	
CODE	Sheath O.D.	Tip O.D.
DB	1/4"	1/8"
FC	3/8"	3/16"
HC	1/2"	3/16"
HD	1/2"	1/4"
JD	5/8"	1/4"

Other diameters available. Consult factory.

BOX4 CODE	Probe Material
S	Stainless steel 316/316L

Other materials available. Consult factory.

BOX5 CODE	Immersion Length "U"
---	In 0.1" increments Ex.: 065 = 6.5" long

BOX6 CODE	Remote Probe Cable Length "G"
TA---	Teflon® with SS armor, in inches Ex.: TA200 = 200" long

Dim. "G" in inch increments.

BOX8 CODE	Fitting Type
0	None
S**S	Adjustable fitting *
Ferrule material : S = Stainless steel* B = Brass* T = Teflon® * Not readjustable with metal ferrule	
Fitting material : S = Stainless steel B = Brass Ex.: T14B = Teflon® ferrule, 1/4" NPT, Brass fitting	
F**S	Fixed fitting
Process NPT size : ** 18 = 1/8" NPT 14 = 1/4" NPT 38 = 3/8" NPT 12 = 1/2" NPT 34 = 3/4" NPT 44 = 1" NPT	

BOX9 CODE	Extension Connector / Cable Type
MC	M12 Micro-Male Connector
PV	PVC insulation, 90°C (195°F) max.
SL	Silicone insulation, 180°C (356°F) max.
TF	Teflon® insulation, 200°C (392°F) max.
TA	Teflon® with SS armor, 200°C (392°F) max.
TP	Teflon® with SS armor and polyolefin shrink, 90°C (195°F) max.
TT	Teflon® with SS armor and Teflon® shrink, 200°C (392°F) max.

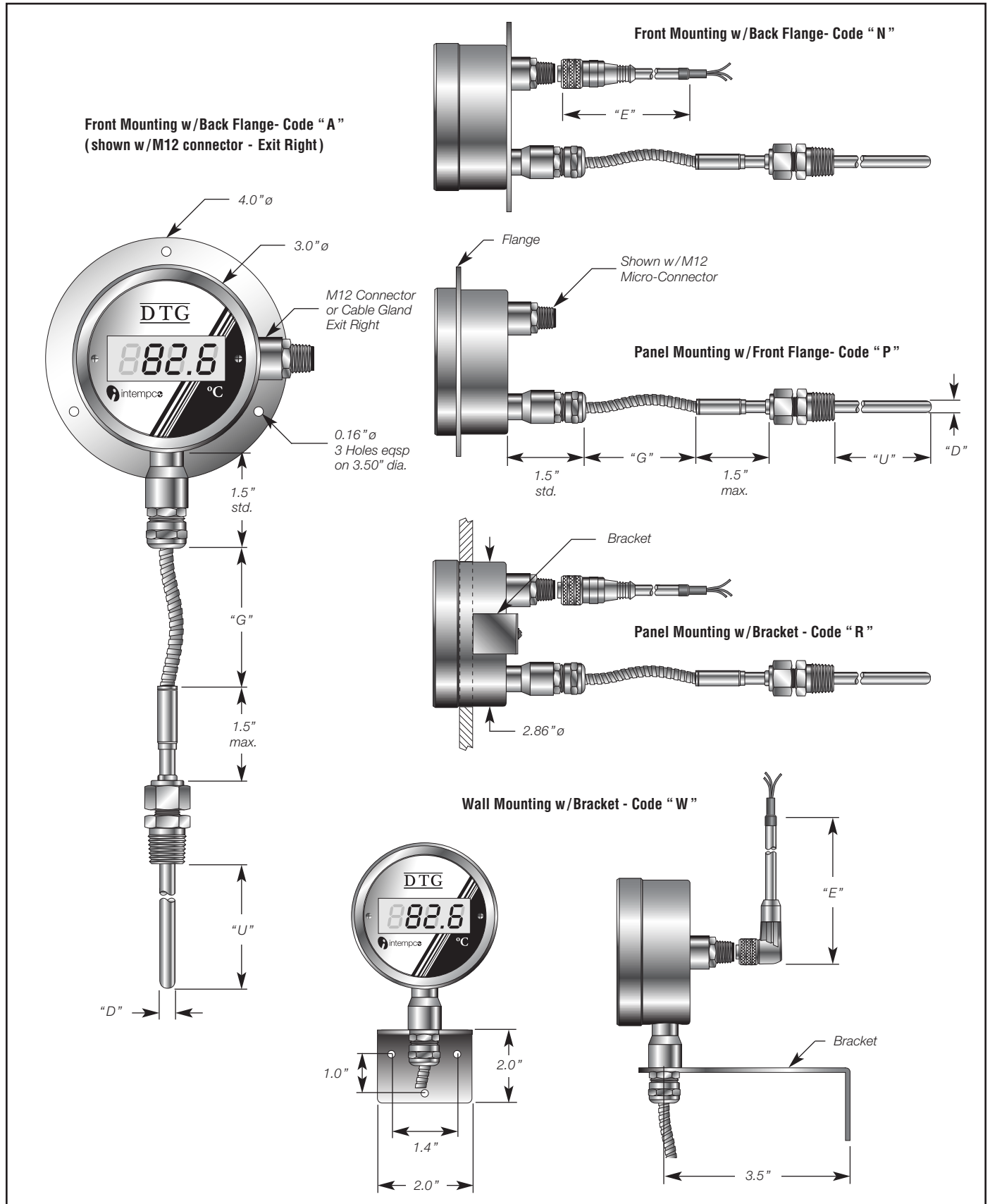
Note : 1. Leads "E" length 12" and less are single conductor Teflon® insulation, 22 AWG

BOX10 CODE	Extension Cable Length "E" (MC option)
N	None
A2	Straight, 2 meters
A5	Straight, 5 meters
B2	Right angle, 2 meters
B5	Right angle, 5 meters
BOX10 CODE	Extension Cable Length "E" (Cable option)
---	In inches Ex.: 060 = 60" long

BOX11 CODE	Surface Finish
SF	Standard, 32 Ra max.

BOX12 CODE	Mounting Options
A	Front mtg. w/back flange, exit right
B	Front mtg. w/back flange, exit left
C	Front mtg. w/back flange, exit up
D	Front mtg. w/back flange, exit back
N	Front mtg. w/back flange, exit back
P	Panel mtg. w/front flange, exit back
R	Panel mtg. w/bracket, exit back
W	Wall mtg. w/bracket, exit back

Dimensions & Mounting Options



TECHNICAL SPECIFICATIONS

Sensing Element :	RTD, Type Pt100 DIN EN 60751, Class A
Temperature Ranges :	Customer re-scalable between -200°C to 600°C or -50°C to 200°C depending model. No re-calibration required.
Switching Ranges :	Customer programmable between -200°C to 600°C or -50°C to 200°C depending model.
Hysteresis :	Customer programmable, 1% of range by factory setting.
Accuracy :	±(0.25°C + 0.40% of reading) max. with default calibration. ±(0.10°C + 0.20% of reading) max. with one-point factory or customer calibration.
Open circuit detection :	Upscale (22mA) or Downscale (2.5mA) current output. Error message on LED display.
Warm-up :	30 seconds.
Response Time :	0.5 sec to 30 sec (software selectable)
Display :	4-DIGITS LED, decimal point selectable by software.
Display resolution :	±0.02% F.S. ±1 DIGIT
RFI effect :	1% or less typical
Temp. Effect :	<0.01% FS/°C
Ambient Temp. Range :	-40°C to 80°C (-40°F to 176°F)
Storage Temp. Range :	-50°C to 85°C (-58°F to 185°F)
Max. Pressure :	500 PSIG (on probe)
Housing Material :	Stainless steel 316
Probe Material :	Stainless steel 316 standard
Cable Materials :	PVC, Teflon®, Silicone, SS armored Teflon®
Environmental Protection :	NEMA 4/IP 65

ELECTRICAL

Power Supply :	9-36 VDC, polarity protected
Supply effect :	0.005% /V
Power consumption :	15 mA @ 24 VDC + output current – 950mW max. 20 mA @ 24 VDC for PNP output – 500 mW max. 20 mA @ 24 VDC + sourcing current for NPN output 50 mA @ 24 VDC for Relay Output – 1200mW max.
Current Output:	4-20 mA (3 wires configuration) linear to temperature.
Max load on current output :	(Vsupply-9V)/20 mA, Ohms
Switching Output :	Transistor NPN (max 100mA source) or Transistor PNP (max 100mA sink) or Relay SPDT 0.5A @ 240 VAC
Switching Logic :	N.C. or N.O. Software selectable.
Isolation :	500 VDC Input/Output (between probe and output signal)
Electrical Connection :	Micro-DC male plug or cable only

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Installation Considerations

Installation requirements of the DTG are similar to those of the temperature sensor assemblies with head mounted hockey puck transmitter and display. If the temperature of the electronics in the housing exceeds 80°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.