

# "FH" Digital Temperature Gauge

## Introduction

The Anderson-Negele DTG Digital Temperature Gauge carries on the tradition of accurate and reliable electronic temperature indication, while incorporating many new features tailored to a growing industry.

This "next generation" product provides high accuracy temperature monitoring in an operator friendly simple to read design. The DTG also offers new options for remote mounting as well as high and low switches for critical applications where user-defined setpoints can be easily programmed.

The battery-operated version can be ordered with or without a secondary 100 ohm 3-wire RTD. The secondary RTD option is ideal in applications that require local indication, as well as remote recording. As only one vessel penetration is required, a cost savings can be realized.

The DC powered version supplies two (2) SPST low voltage contacts assigned to the adjustable setpoints. An optional remote relay module is available that provides SPDT relays rated 6 amps at 250 VAC.

All models feature simple field calibration for fine tuning to the plant reference standard. As such, the DTG makes a perfect and cost-effective replacement for any mechanical thermometer, from bi-metals to mercury-in-glass. With resolution to a tenth of a degree, the DTG takes the guesswork out of reading dials and mercury columns.

Complete specifications and ordering information are available on the reverse. For additional information please visit us on the web at [www.anderson-negele.com](http://www.anderson-negele.com), or contact your local Authorized Anderson-Negele Distributor.

## Authorizations



## Features

- Ideal replacement for Mercury-In-Glass thermometers
- Models and fittings for Dairy, Fluid Food and Beverage Applications
- Operates on field replaceable batteries; DC switching version available
- Large Liquid Crystal Display makes viewing easy and repeatable
- All models offer field calibration capability



**Specifications**

Compliance:	3-A, NEMA 4X, IP-66	Internal Switch Rating:	1 amp at 24 VDC SPST
Product Contact Material:	Fitting & Probe: 316L SS	Remote Relay Rating:	6 amp at 250 VAC SPDT
Product Contact Finish:	Ra max = 32 micro inches	Power:	2 AA Industrial Grade Batteries (Style 0,1,5)
Non-Product Contact Surface:	Housing - 304 SS		9-30V DC external supply (Style 2)
	Lens - Polysulfone	Battery Life:	Style 0,1,5: 12 month minimum
Process Temp. Range:	0 to 300°F (-18 to 150°C)		Style 2: Externally powered
Units:	Deg F and Deg C; field selectable	Vibration:	10 to 60 Hz, 2g
Resolution:	0.1°F or °C	Warranty:	2 year
Accuracy:	+/- .75°F (+/-0.4°C)	Secondary Output:	Additional 100 ohm RTD, 3 wire DIN, wire via quick disconnect fitting (Style 1)
Repeatability:	+/-0.2% of full scale (+/-0.6°F)	Display Update:	3 seconds
Ambient Operating Limits:	40 to 140°F (4.4 to 60°C)	Calibration Adjustment:	Via onboard switches
Ambient Temp. Stability:	Better than 0.1°C per 10°C ambient shift		
Storage Temp.:	32 to 140°F (0 to 65°C)		
Display:	LCD: 4 digit main display, 6 digit secondary; 0.9" high contrast LCD		

**Order Information**

**STYLE**

- 0 Standard Thermometer
- 1 Thermometer w/ Optional RTD
- 2 Thermometer w/Dual Switches(DC power /SPST) <sup>2</sup>
- 5 Remote Display Thermometer (must order mounting style 9)

**DISPLAY UNITS**

- 0 Deg F
- 1 Deg C

**MOUNTING**

- 1 Bottom
- 4 Back (90° elbow)
- A Back (90° adjustable elbow)
- 5 Left <sup>4</sup>
- 6 Right <sup>4</sup>
- 7 Top <sup>4</sup>
- 8 Back (45° elbow)
- 9 Remote Display - Bottom Cable Exit

**FITTING/INSERTION**

<ul style="list-style-type: none"> <li>001-013 1/2" Tri-Clamp<sup>6</sup> 1-1/4"</li> <li>002-037 3/4" Tri-Clamp<sup>6</sup> 2-3/4"</li> <li>004-037 1-1/2" Tri-Clamp<sup>6</sup> 2-3/4"</li> <li>005-049 2" Tri-Clamp<sup>6</sup> 3-1/2"</li> <li>006-049 2-1/2" Tri-Clamp<sup>6</sup> 3-1/2"</li> <li>007-053 3" Tri-Clamp<sup>6</sup> 3-3/4"</li> <li>008-065 4" Tri-Clamp<sup>6</sup> 4-1/2"</li> <li>010-031 1-1/2" APC "K" <sup>4</sup> 2-3/8"</li> <li>011-730 2" APC "K" <sup>4</sup> 2-25/32"</li> <li>016-031 1-1/2" Cherry-Burrell "I" 2-3/8"</li> <li>017-730 2" Cherry-Burrell "I" 2-25/32"</li> <li>027-044 1-1/2" G&amp;H "H" Line (male) 3 3/16"</li> <li>028-056 2" G&amp;H "H" Line (male) 3-15/16"</li> <li>032-033 1-1/2" Cherry "Q" 2-1/2"</li> <li>033-049 2" Cherry "Q" 3-1/2"</li> <li>044-029 1-1/2" #14 Bevel Seat (with 13 H nut) <sup>4</sup> 2-1/4"</li> <li>045-035 2" #14 Bevel Seat (w/ nut) <sup>4</sup> 2-5/8"</li> <li>060-221 Umbrella 14-1/4"</li> <li>060-360 Umbrella 22-15/16"</li> <li>060-435 Umbrella 27-5/8"</li> <li>060-532 Umbrella 33-11/16"</li> </ul>	<ul style="list-style-type: none"> <li>060-680 Umbrella 42-15/16"</li> <li>061-077 Split Ferrule 5-1/4"</li> <li>062-139 Projectile Well(41247) <sup>5</sup> 9-1/8"</li> <li>063-161 Projectile Well(41280) <sup>4,5</sup> 10-1/2"</li> <li>064-187 Projectile Well(41279) <sup>4,5</sup> 12-1/8"</li> <li>084-033 Bi-Metal Well 1/2" NPT <sup>5</sup> 2-1/2"</li> <li>084-057 Bi-Metal Well 1/2" NPT <sup>5</sup> 4"</li> <li>084-089 Bi-Metal Well 1/2" NPT <sup>5</sup> 6"</li> <li>084-137 Bi-Metal Well 1/2" NPT <sup>5</sup> 9"</li> <li>084-185 Bi-Metal Well 1/2" NPT <sup>4,5</sup> 12"</li> <li>084-233 Bi-Metal Well 1/2" NPT <sup>4,5</sup> 15"</li> <li>084-281 Bi-Metal Well 1/2" NPT <sup>4,5</sup> 18"</li> <li>084-377 Bi-Metal Well 1/2" NPT <sup>4,5</sup> 24"</li> <li>100-049 Industrial well(41070) <sup>6</sup> 3-1/2"</li> <li>101-091 Industrial well(41074) <sup>6</sup> 6-1/8"</li> </ul>
---	--

**REMOTE DISPLAY CABLE LENGTH**

- 0 None
- 5 5' (style 5)
- 6 10' (style 5)
- 7 15' (style 5)
- 8 20' (style 5)

**CABLE LENGTH**

- 00 None (style 0,2 <sup>3</sup> or 5)
- 02 10' (style 1, 2 or 2 w/AC module)
- 04 20' (style 1, 2 or 2 w/AC module)
- 06 30' (style 1, 2 or 2 w/AC module)
- 08 40' (style 1, 2 or 2 w/AC module)
- 10 50' (style 1, 2 or 2 w/AC module)
- 15 75' (style 1, 2 or 2 w/AC module)
- 20 100' (style 1, 2 or 2 w/AC module)

**PROBE**

- 0 Standard probe (choose for projectile well fittings)
- 1 Heavy duty probe <sup>1</sup> (recommended for lengths over 6")

**Mounting**

<sup>1</sup> Heavy Duty Probes with 3/4" Dia., insertion lengths from 3-1/2" to 43-1/2" available for standard fittings, Tri-Clamp®, Cherry "I", Bevel Seat and Umbrella  
Consult factory for other fittings.

<sup>2</sup> For AC Relays, order remote relay module# PM0606004

<sup>3</sup> Style 2 supplied with 90° Field Wireable Connector, no cable

<sup>4</sup> Sensors with these options are non-cancellable/non-returnable for credit.

<sup>5</sup> Meets 3-A when used with a 3-A compliant well

<sup>6</sup> Not 3-A Compliant

05055 / 2.0 / 2015-03-20 / GR / NA

ANDERSON INSTRUMENT COMPANY  
156 Auriesville Road  
Fultonville, NY 12072

Phone 800-833-0081  
Fax 518-922-8997  
info@anderson-negele.com

Tech. Support:  
techservice@anderson-negele.com  
Phone 800-833-0081