



Product Information - FH3 / FH4

FOOD

"FH3 / FH4" Digital Temperature Gauge for Retort Applications

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. Health concerns related to mercury continue to grow, and the days of the traditional (MIG) mercury-in-glass thermometer on the process floor are numbered.

As regulations in the Retort Cooker industry change, and plants look to adopt new technology, the DTG is there to offer a solution. Building on a solid platform of accuracy and reliability, the DTG incorporates additional features specific to this demanding market. Redundant temperature elements provide continuous error checking. Unlike traditional MIG's or simple off the shelf components, this unique feature provides backup so your process can continue to run, with no emergency downtime. Certification of calibration against an NIST traceable source is provided with each unit. For facilities with in-house Metrology capability, the DTG offers up to five user configurable calibration points, so you can fine tune in order to perfectly match your in-house reference.

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



Authorizations



Features

- Ideal replacement for Mercury-In-Glass thermometers
- Designed for Retort Cookers
- Operates on field replaceable batteries
- Large Liquid Crystal Display makes viewing easy and repeatable
- All models offer field calibration capability
- Dual element and onboard diagnostics; complies with Code of Federal Regulations

Specifications

Compliance: CE, NEMA 4X, IP-66 **Product Contact Surface:** Fitting & Probe: 316L SS

Non-Product Contact Surface: Housing - 304 SS Lens - Polysulphone

Process Temp. Range: 0 to 300°F (-18 to 150°C) Deg F and Deg C; field selectable Units:

Resolution: 0.1°F or °C

+/- .5°F (+/-0.3°C) Full Scale Accuracy: **Ambient Operating Limits:** 40 to 158°F (4.4 to 70°C)

(With use of Thionyl Chloride Lithium

battery only)

Ambient Temp. Stability: Better than 0.1°C per 10°C ambient

32 to 140°F (0 to 65°C) Storage Temp.:

Display: LCD: 4 digit main display, 6 digit

secondary; 0.9" high contrast LCD **Error Warning:** LCD flashing

Power: Field replaceable battery;

Thionyl Chloride Lithium 3.6VDC;

AA package

Back mount 90°

(fixed display)

(fixed display)

Right Mount

Top mount

(fixed display)

(fixed display)

Back mount 45°

(fixed display)

Remote mount

Back mount 90°

(display rotates ± 90°)

straight)

(cable exits probe -

Left mount

4

5

6

7

8

9

, 45°

18 months typical **Battery Life:**

(With use of Thionyl Chloride

Lithium battery only)

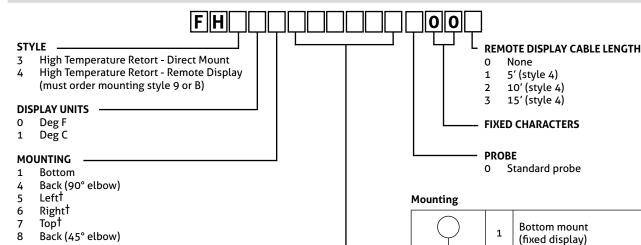
Vibration: 10 to 60 Hz, 2g Warranty: 2 year Display Update: 3 seconds

Calibration Adjustment: Via onboard switches; up to five

field adjustable points R₃ max = 32 micro inches

Surface Finish:

Order Information



FITTING/INSERTION			
179-049	Retort Port*	3-1/2"	I
179-091	Retort Port*	6-1/8"	1-1/4" 18UNEF
179-139	Retort Port	9-1/8"	IAMD Nut
179-161	Retort Port	10-1/2"	Industrial Well
179-187	Retort Port	12-1/8" —	
084-033	Bi-Metal Well 1/2" NPT	2-1/2"	
084-057	Bi-Metal Well 1/2" NPT	4"	
084-089	Bi-Metal Well 1/2" NPT	6"	
084-137	Bi-Metal Well 1/2" NPT	9"	
084-185	Bi-Metal Well 1/2" NPT	12"	
084-233	Bi-Metal Well 1/2" NPT	15"	
084-281	Bi-Metal Well 1/2" NPT	18"	
084-377	Bi-Metal Well 1/2" NPT	24"	
Consult factory for other fittings.			

Typical MIG Thermometer replacement probes.

Remote Display - Bottom Cable Exit Back (90° adjustable elbow)

Sensors with these options are non-cancellable/ non-returnable for credit.

SPARE PARTS

Description Part#

62071A0001 Thionyl Chloride Lithium

batteries 3.6VDC; AA package

1-1/4" 18UNEF IAMD nut to 3/4" NPT 41100A0002 SP55408C0001 Pack of two back plate seal screws

