SANITARY BY DESIGN

ANDERSON-NEGELE

"FJ" Digital Temperature Gauge

Introduction

The Anderson-Negele FJ 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 FJ 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 for 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 FJ 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 FJ takes the guesswork out of reading dials and mercury columns. And, because it's an Anderson-Negele Life Sciences Series, you get the added value of all 316 "L" electropolished wetted parts, customer specified permanent tagging, a certificate of calibration, and CMTRs with every unit at no additional cost.

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.

Features

· Models and fittings specifically designed for Pharmaceutical and Biotech 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

· All programming and adjustments behind tamper-resistant back plate

Specifications

Compliance:	3-A, NEMA 4X, IP-66	Display:	LCD: 4 digit main display, 6 digit secondary; 0.9" high contrast LCD
Product Contact Material: Fitting & Probe: 316L SS		Internal Switch Rating:	1 amp at 24 VDC SPST
Product Contact Finish: R_a max = 8 micro inches, Electropolished (32 micro inches for thermowell fittings)		Remote Relay Rating:	6 amp at 250 VAC SPDT
		Power:	Two "AA" 3.6VDC Thionyl Chloride Lithium (Style 0,1,5) 9-30V DC external supply (Style 2)
Non-Product Contact Surface: Housing - 304 SS Lens - Polysulfone		Battery Life:	Style 0,1,5: 12 month minimum Style 2: Externally powered
Process Temp. Range:	0 to 300°F (-18 to 150°C)		
Units:	Deg F and Deg C; field selectable	Vibration:	10 to 60 Hz, 2g
Resolution:	0.1°F or °C	Warranty:	2 year
Accuracy:	± 0.75°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)		
Ambient Operating Limits: 40 to 140°F (4.4 to 60°C)		Display Update:	3 seconds
Ambient Temp. Stability: Better then 0.1°C per 10°C ambient shift		Calibration Adjustment: Via onboard switches	
Storage Temp.:	32 to 140°F (0 to 65°C)		

Order Information

`F` `J` ☐☐☐☐ ☐☐☐☐☐☐ ☐☐☐ ☐

STYLE
- 0 Standard Thermometer
- 1 Thermometer w/ Optional RTD
- 2 Thermometer w/Dual Switches(DC power /SPST) [2]
- 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 [4]
- 6 Right [4]
- 7 Top [4]
- 8 Back (45° elbow)
- 9 Remote Display - Bottom Cable Exit

FITTING/INSERTION

001-013	1/2" Tri-Clamp® [6]	1-1/4"
002-037	3/4" Tri-Clamp®	2-3/4"
004-037	1-1/2" Tri-Clamp®	2-3/4"
005-049	2" Tri-Clamp®	3-1/2"
006-049	2-1/2" Tri-Clamp®	3-1/2"
007-053	3" Tri-Clamp®	3-3/4"
008-065	4" Tri-Clamp®	4-1/2"
010-031	1-1/2" APC "K" [4]	2-3/8"
011-730	2" APC "K" [4]	2-25/32"
016-031	1-1/2" Cherry-Burrell "I"	2-3/8"
017-730	2" Cherry-Burrell "I"	2-25/32"
027-044	1-1/2" G&H "H" Line (male)	3 3/16"
028-056	2" G&H "H" Line (male)	3-15/16"
032-033	1-1/2" Cherry "Q"	2-1/2"
033-049	2" Cherry "Q"	3-1/2"
044-029	1-1/2" #14 Bevel Seat (with 13 H nut) [4]	2-1/4"
045-035	2" #14 Bevel Seat (w/ nut) [4]	2-5/8"

062-139	Projectile Well(41247) [5]	9-1/8"
063-161	Projectile Well(41280) [4,5]	10-1/2"
064-187	Projectile Well(41279) [4,5]	12-1/8"
084-033	Bi-Metal Well 1/2" NPT [5]	2-1/2"
084-057	Bi-Metal Well 1/2" NPT [5]	4"
084-089	Bi-Metal Well 1/2" NPT [5]	6"
084-137	Bi-Metal Well 1/2" NPT [5]	9"
084-185	Bi-Metal Well 1/2" NPT [4,5]	12"
084-233	Bi-Metal Well 1/2" NPT [4,5]	15"
084-281	Bi-Metal Well 1/2" NPT [4,5]	18"
084-377	Bi-Metal Well 1/2" NPT [4,5]	24"

Well fittings not electropolished

REMOTE DISPLAY CABLE LENGTH
- 0 None
- 5 5' (style 5)
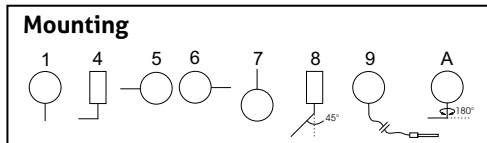- 6 10' (style 5)
- 7 15' (style 5)
- 8 20' (style 5)

CABLE LENGTH
- 00 None (style 0, 2 [3] 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 [1] (recommended for lengths over 6")

Mounting

1   4   5   6   7   8   9   A

[1] 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.
[2] For AC Relays, order remote relay module# PM0606004
[3] Style 2 supplied with 90° Field Wireable Connector, no cable
[4] Sensors with these options are non-cancellable/non-returnable for credit.
[5] Meets 3-A when used with a 3-A compliant well
[6] Not 3-A Compliant

CSI
417.831.1411
csidesigns.com