**Product Information - FJ** 

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# "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

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### **Specifications**

Compliance: 3-A, NEMA 4X, IP-66
Product Contact Material: Fitting & Probe: 316L SS

Product Contact Finish: R<sub>a</sub> max = 8 micro inches,

Electropolished (32 micro inches for

thermowell fittings)

Non-Product Contact Surface: Housing - 304 SS

Lens - Polysulfone

Process Temp. Range: 0 to 300°F (-18 to 150°C)

Units: Deg F and Deg C; field selectable

Resolution:  $0.1^{\circ}F$  or  $^{\circ}C$ Accuracy:  $\pm 0.75^{\circ}F$  ( $\pm 0.4^{\circ}C$ )

Repeatability:  $\pm 0.2\%$  of full scale ( $\pm 0.6^{\circ}$ F) Ambient Operating Limits:  $40 \text{ to } 140^{\circ}$ F ( $4.4 \text{ to } 60^{\circ}$ C)

Ambient Temp. Stability: Better then 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 Internal Switch Rating: 1 amp at 24 VDC SPST

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) Style 0,1,5: 12 month minimum

Style 2: Externally powered

Vibration: 10 to 60 Hz, 2g

Warranty: 2 year

**Battery Life:** 

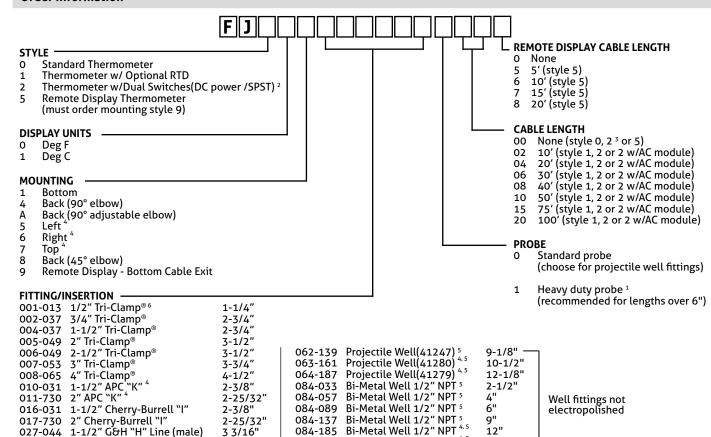
Secondary Output: Additional 100 ohm RTD, 3 wire DIN,

wire via quick disconnect fitting (Style 1)

Display Update: 3 seconds

Calibration Adjustment: Via onboard switches

#### **Order Information**



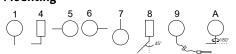
## Mounting

028-056

032-033

033-049

044-029



2" G&H "H" Line (male)

1-1/2" Cherry "Q

(with 13 H nut)

045-035 2" #14 Bevel Seat (w/ nut) 4

2" Cherry "Q" 1-1/2" #14 Bevel Seat

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.

15"

18"

74"

For AC Relays, order remote relay module# PM0606004

084-377 Bi-Metal Well 1/2" NPT 4,5

- 3 Style 2 supplied with 90° Field Wireable Connector, no cable
- Sensors with these options are non-cancellable/non-returnable for credit.
- Meets 3-A when used with a 3-A compliant well

Bi-Metal Well 1/2" NPT 4,5

Bi-Metal Well 1/2" NPT 4,5

Not 3-A Compliant

05056 / 2.2 / 2016-08-30 / GR / NA

084-233

084-281

3-15/16"

2-1/2"

3-1/2"

2-1/4" 2-5/8"