

# High Pressure Digital Pressure Gauge

## Model JH

**Pressure Ranges from 15,000 to 60,000 PSI Gage**

**2 Programmable Limits and Relays (Optional)**

**Accuracy - 0.2% Full Scale**

**High & Low Detection - Microprocessor Based**

**4-20 mA (2 wire) and 0-5 VDC Analog Outputs (Optional)**

Using high pressure autoclave fittings, the Series JH Digital Pressure Test Gauge with 0.2% full scale accuracy uses transducer technology and a stainless steel diaphragm for high over pressure protection. The transducer technology provides high accuracy over the entire pressure range. The JH has no moving parts and thus, ensures long life with fewer re-calibrations. The stainless steel NEMA construction also provides EMI and RFI protection.

The JH provides high resolution with an easy to read digital display. There are no operator errors due to interpolation of hash marks or parallax errors. The units can be scaled to read in various engineering units. PSI pressures are read x 10 with the 4 digit display.

The Model JHB provides a 4-20 mA, 2 wire output. The Model JHE provides a 0-5 VDC output. The Model JHR has 2 programmable limits and relays with no analog output. The Model JHX provides a 0-5 VDC output with 2 programmable limits and relays for process control or alarm indication.

The Model JHW is powered by one or two common 9-volt alkaline batteries. The Model JHT is powered by a 110 VAC adapter. The JHV, JHB, JHE, JHR and JHX models are powered by an 11 to 32 VDC power supply.

Each unit has a membrane face with raised buttons and tactile feedback for setup and operation. The High, Low, and Clear buttons are easily accessible on this front membrane. Zero adjustment and zero offset/tare functions are standard on each unit. Calibration and setup parameters are stored on a memory chip to protect from loss even when power is interrupted. Unauthorized set ups and calibrations are also blocked with internal security. Various combinations of the front panel buttons can be de-activated. Please consult factory.

The Series JH has an on/off switch that can be operated in three different modes. In the first mode, the unit is turned on and off manually. In the second mode, the unit is set to remain on continuously, i.e., the unit cannot be turned off. In the third mode, the unit is turned on and off manually, and the unit also has an automatic shut off if the Hi/Lo button is not pushed after four minutes.



- Customer Recalibration
- Zero Offset/Tare
- On/off Switch Disable Feature
- 2 Programmable Limits and Relays (Optional)
- NEMA 4 Rating (Optional)
- NIST STATEMENT (Standard)
- NIST Certificate (Optional)

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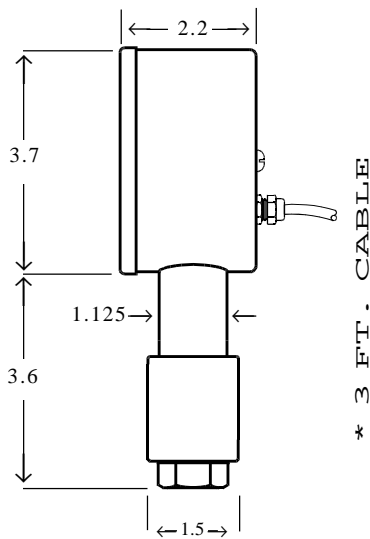
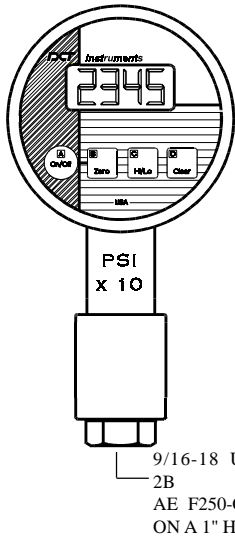
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# DIMENSIONS

Example for display of  
23450 PSI



\* Models JHB, JHE, JHR, JHX, JHV

No cable for battery powered Model JHW

Request certified drawing before designing mountings or fixtures.  
Specifications subject to change without notice.

# ACCESSORIES

## ORDER CODE

PANEL MOUNTING RING

MR2

NIST CERTIFICATION

(In addition to NIST STATEMENT)

NISTCERTS

# SPECIFICATIONS

Rating: NEMA 2 (Optional NEMA 4)  
 Diameter: 3.7 inches  
 Linearity & Hysteresis: 0.2% FS (Better than Test Gauge Accuracy)  
 Operating Temperature: 30 to 160 deg F  
 Pressure Range 0 to: 15000, 20000, 25000, 30000, 35000, 40000, 50000, 60000 PSI  
 Display: 4 1/2 LCD Digits - 0.5 inches high  
 Pressure Port: Autoclave AE F 250-C 9/16-18 UNF-2B Female  
 Power: Model JHW: One or two 9-volt alkaline batteries (included)  
 Model JHT: 110 Volt AC adapter @ 60 Hz (included)  
 Model JHV: 11 to 32 VDC @ 100 mA (3 ft. cable included)  
 Model JHB: 11 to 32 VDC (depending on loop resistance) @ 20 mA  
 Model JHE: 1 to 32 VDC @ 100mA  
 Model JHR: 11 to 32 VDC @ 100mA  
 Model JHX: 11 to 32 VDC @ 100mA  
 Electrical Connection: 3 foot cable (std) Models JHB, JHE, JHR, JHX, JHV  
 Wetted Parts: Stainless steel  
 Case Material: Stainless steel  
 High & Low Capture: Standard  
 Update Speed: 3 times per second  
 Zero & Span Signal Adjustment: Standard on Models JHB, JHE, JHX  
 Face Membrane: Tactile Feedback Raised Buttons  
 Calibration Data: Stored on Memory Chip  
 Low Battery Indication: Standard on Model JHW  
 Limits & Relays: Models JHR & JHX

[The limit/relay models include 2 LED status indicators on front face and 2 form C relays (normally open, common, normally closed) that are rated at a maximum 24 VDC/AC at 1 AMP or 48 VDC/AC at 1/2 AMP]

# ORDERING INFORMATION

## ORDER CODE

\* = Example

## SERIES

JH\*

## MODEL DESIGNATION

### Models with Output Signal

B = 4-20 mA (2 wire)  
 E = 0-5 VDC  
 R = 2 Programmable Limits & Relays  
 X = 0-5 VDC with 2 Limits & Relays

### Models with No Output Signal

W = Battery powered (9 volt alkaline) \*  
 T = 110 Volt AC adapter (included)  
 V = 11 - 32 Volts DC (3 ft. cable)

## PRESSURE RANGE (PSI)

15K = 0-15000      35K = 0-35000  
 20K = 0-20000      40K = 0-40000  
 25K = 0-25000      50K = 0-50000\*  
 30K = 0-30000      60K = 0-60000

## REFERENCE

G = Gage - Unit reads zero at atmosphere\*

## ELECTRICAL CONNECTION

Z = No electrical connection (Model JHW - 9 volt battery)\*

C = 3 foot cable

T = AC adapter (Model JHT)

B = Bendix (opt) PTIH-10-6P or equal (connector sold separately)

Call Factory for availability of other electrical connections and cable lengths.

## NEMA 4 CONSTRUCTION

4 = NEMA 4 (not available on Model JHT)

## FIELD SELECTABLE STANDARD UNITS OF MEASURE

Bar = Bar      Ft H2O = Feet of water  
 MBar = Millibar      In H2O = Inches of water  
 kPa = Kilopascals      In Hg = Inches of mercury  
 MPa = Megapascals      mmHg = Millimeters of mercury  
 Consult factory for other units of measure not listed

PRESSURE RANGE (PSI)	MAXIMUM SAFE OVER PRESSURE (PSI) See note (1) Below	INCREMENTAL DISPLAY STEPS
0-15,000 = 15K	20,000	1 x 10
0-20,000 = 20K	25,000	1 x 10
0-25,000 = 25K	31,000	1 x 10
0-30,000 = 30K	37,000	2 x 10
0-35,000 = 35K	43,000	5 x 10
0-40,000 = 40K	50,000	5 x 10
0-50,000 = 50K	62,000	5 x 10
0-60,000 = 60K	75,000	5 x 10

(1) Maximum Safe Overpressure is the pressure which the unit can experience occasionally without loss of accuracy or permanent damage.

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