

# 3A Food/Pharmaceutical Digital Pressure Gauge

## Model JP

**Tri-Clover Sanitary Fittings**

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

**Test Gauge Accuracy - 0.2% Full Scale**

**High & Low Detection - Microprocessor Based**

**NEMA 4 Rated**

Using tri-clover sanitary fittings, the Series JP 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 JP 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 JP 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 such as InHg, Ft H<sub>2</sub>O, etc.

The Model JPB provides a 4-20 mA, 2 wire output. The Model JPE provides a 0-5 VDC output. The Model JPR has 2 programmable limits and relays with no analog output. The Model JPX provides a 0-5 VDC output with 2 programmable limits and relays for process control or alarm indication.

The Model JPW is powered by one or two common 9-volt alkaline batteries. The Model JPT is powered by a 110 VAC adapter. The Model JPV is 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 Model JP 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.



Series JP

Made in the U.S.A.

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

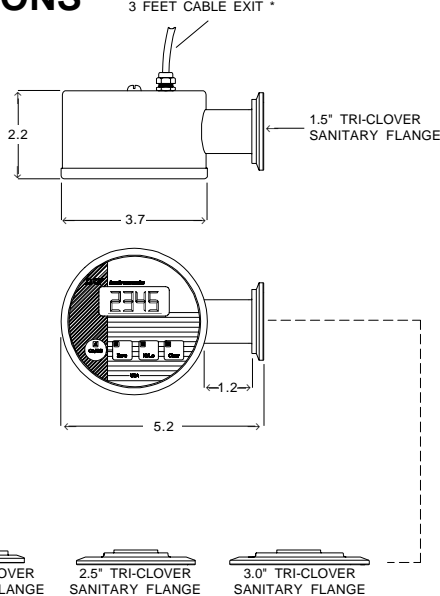
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# DIMENSIONS



**\*Models JPB, JPE, JPR, JPX, JPV**  
**No cable for battery powered Model JPW**

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

# ACCESSORIES

	ORDER CODE
CARRYING CASE	CC2
PANEL MOUNTING RING	MR2
NIST CERTIFICATION (In addition to NIST STATEMENT)	NISTCERTS

# SPECIFICATIONS

Rating:	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:	1, 2, 5, 10, 15, 25, 50, 100, 250, 400, 500 PSI
Display:	4 1/2 LCD Digits - 0.5 inches high
Pressure Port:	3A rated sanitary flanges: 1.5, 2.0, 2.5, 3.0 inches
Power:	Model JPW: One or two 9-volt alkaline batteries (included)
	Model JPT: 110 Volt AC adapter @ 60 Hz (included)
	Model JPV: 11 to 32 VDC @ 100 mA (3 ft. cable included)
	Model JPB: 11 to 32 VDC (depending on loop resistance) @ 20 mA
	Model JPE: 11 to 32 VDC @ 100 mA
	Model JPR: 11 to 32 VDC @ 100 mA
	Model JPX: 11 to 32 VDC @ 100 mA
Electrical Connection:	3 foot cable (std) Models JPB, JPE, JPR, JPX, JPV
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 JPB, JPE, JPX
Face Membrane:	Tactile Feedback Raised Buttons
Calibration Data:	Stored on Memory Chip
Low Battery Indication:	Standard on Model JPW
Limits & Relays	Models JPR & JPX

[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	JP	W	250	G	Z
* = Example					
SERIES					
JP*					
MODEL DESIGNATION					
<b>Models with Output Signal</b>					
B = 4-20 mA (2 wire)					
E = 0-5 VDC					
R = 2 Programmable Limits & Relays					
X = 0-5 VDC with 2 Limits & Relays					
<b>Models with No Output Signal</b>					
W = Battery powered (9 volt alkaline) *					
T = 110 Volt AC adapter (included)					
V = 11 to 32 VDC (3 ft. cable)					
<b>PRESSURE RANGE (PSI)</b>					
1 = 0-1 (opt)	15 = 0-15	250 = 0-250*			
2 = 0-2 (opt)	25 = 0-25	400 = 0-400			
5 = 0-5 (opt)	50 = 0-50	500 = 0-500			
10 = 0-10	100 = 0-100				
<b>REFERENCE</b>					
G = Gage (std) reads zero at atmosphere*					
A = Absolute (opt) reads zero at vacuum (15 psi or higher)					
V = Vacuum (opt) scaled in In Hg (15 psi or lower)					
C = Compound (opt) reads both positive and negative (vacuum) pressure					
<b>ELECTRICAL CONNECTION</b>					
Z = No electrical connection (Model JPW - 9 volt battery)*					
C = 3 foot cable					
T = AC adapter (Model JPT)					
B = Bendix (opt) PTIH-10-6P or equal (connector sold separately)					
Call Factory for availability of other electrical connections and cable lengths.					
<b>SANITARY 3A FLANGE SIZE (H37-01):</b>					
P = 1.5 inches (up to 500 PSI)					
Q = 2.0 inches (up to 500 PSI)					
R = 2.5 inches (up to 400 PSI)					
S = 3.0 inches (up to 250 PSI)					

# 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 ZERO TO: (PSI)	MAXIMUM SAFE OVERPRESSURE SEE NOTES (1) AND (2) BELOW FLANGE DIAMETER (INCHES)				INCREMENTAL DISPLAY STEPS
	1.5	2.0	2.5	3.0	
1 (opt)	10	10	10	10	.001
2 (opt)	15	15	15	15	.002
5 (opt)	25	25	25	25	.005
10	50	50	50	50	.01
15	75	75	75	75	.01
25	125	125	125	125	.02
50	250	250	250	250	.05
100	500	500	500	350	.1
250	600	600	600	350	.2
400	600	600	600	NA	.5
500	600	600	600	NA	.5
Maximum Flange Pressure at 100° F	600	600	600	350	

- (1) Maximum Safe Overpressure is the pressure which the unit can experience occasionally without loss of accuracy or permanent damage.
- (2) Maximum Pressure: 1 1/2, 2, 2 1/2 inch dia. flange - 600 PSI at 100° F  
 3 inch dia. flange - 350 PSI at 100° F  
 Temperatures above 100° F reduce maximum flange pressure. Please call factory.

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