



## Model JP

### Food/Pharmaceutical Digital Pressure Gauge

#### DESCRIPTION

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 enhanced accuracy over the entire pressure range. The JP has no moving parts and thus, may provide a 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 4½-digit 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 mA to 20 mA, two-wire output. The Model JPE provides a 0 Vdc to 5 Vdc output. The Model JPR has two programmable limits and relays with no analog output. The Model JPX

provides a 0 Vdc to 5 Vdc output with two programmable limits and relays for process control or alarm indication.

The Model JPW is powered by one or two common 9 V alkaline batteries. The Model JPT is powered by a 110 Vac adapter. The Model JPV is powered by an 11 Vdc 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.

#### FEATURES

- Tri-Clover sanitary fittings
- Two programmable limits and relays (optional)
- Test gauge accuracy - 0.2 % full scale
- High and low detection - Microprocessor based
- NEMA 4
- 4½ digit display with 0.5 in height
- Customer recalibration
- Zero offset/tare
- On/off switch disable feature
- Optional carrying case and panel mounting ring
- Two programmable limits and relays (optional)
- NIST traceable (optional)

# Model JP

## PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Linearity and hysteresis	0.2 % full scale (better than test gauge accuracy)
Pressure range 0 psi to	1, 2, 5, 10, 20, 50, 100, 200, 500 psi
High and low capture	Standard
Update speed	3 times per sec
Zero and span signal adjustment	Standard: Models JPB, JPE, JPX

## ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	-1 °C to 71 °C [30 °F to 160 °F]

## ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Rating	NEMA 4
Power, Model JPW	One or two 9 V alkaline batteries (included)
Power, Model JPT	110 Vac adapter @ 60 Hz (included)
Power, Model JPV	11 Vdc to 32 Vdc @ 100 mA (3 ft cable included)
Power, Model JPB	11 Vdc to 32 Vdc (depending on loop resistance) @ 20 mA
Power, Model JPE	11 Vdc to 32 Vdc @ 100 mA
Power, Model JPR	11 Vdc to 32 Vdc @ 100 mA
Power, Model JPX	11 Vdc to 32 Vdc @ 100 mA
Electrical connection	3 ft cable standard: Models JPB, JPE, JPR, JPX, JPV

## MECHANICAL SPECIFICATIONS

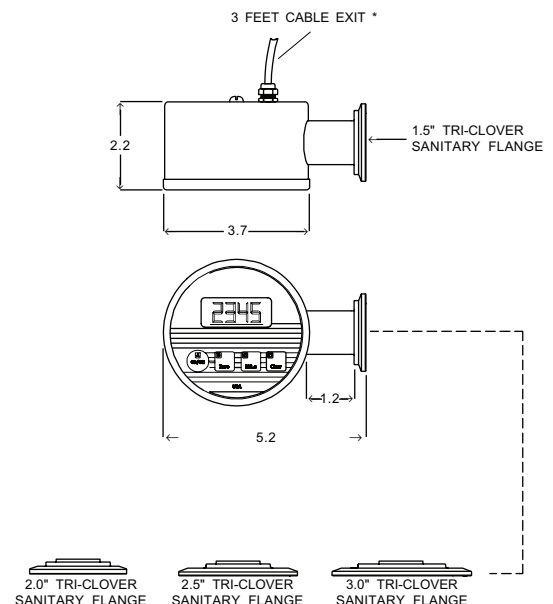
Characteristic	Measure
Diameter	93,98 mm [3.7 in]
Display	4½ LCD digits - 12,7 mm [0.5 in] high
Pressure port	Sanitary flanges: 1.5 in, 2.0 in, 2.5 in, 3.0 in
Wetted parts	Stainless steel
Case material	Stainless steel
Face membrane	Tactile feedback raised buttons
Calibration data	Stored on memory chip
Low battery indication	Standard: Model JPW
Limits and relays	Models JPR and JPX*

## ADDITIONAL SPECIFICATIONS

Pressure range 0 to: (psi)	Maximum safe over pressure (psi) <sup>1,2</sup>				
	1.5 in flange dia.	2.0 in flange dia.	2.5 in flange dia.	3.0 in flange dia.	Incremental display steps
1 (opt)	10	10	10	10	0.001
2 (opt)	15	15	15	15	0.002
5 (opt)	25	25	25	25	0.005
10	50	50	50	50	0.01
15	75	75	75	75	0.01
25	125	125	125	125	0.02
50	250	250	250	250	0.05
100	500	500	500	350	0.1
250	600	600	600	350	0.2
400	600	600	600	NA	0.5
500	600	600	NA	NA	0.5
Max. flange pressure at 100 °F	600	600	600	350	

- <sup>1</sup> Maximum safe overpressure is the pressure which the unit can experience occasionally without the loss of accuracy or permanent damage.
- <sup>2</sup> 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.

## MOUNTING DIMENSIONS AND CHARACTERISTICS



**\*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.

For reference only

# Model JP

# Food/Pharmaceutical Digital Pressure Gauge

## ORDER GUIDE

\* = Example

**SERIES** JP W 250 G Z

**MODEL DESIGNATION**

**Models with output signal**  
 B = 4 mA to 20 mA (two-wire)  
 E = 0 Vdc to 5 Vdc  
 R = Two programmable limits & relays  
 X = 0 Vdc 5 Vdc with two limits & relays

**Models with no output signal**  
 W = Battery powered (9 V alkaline) \*  
 T = 110 Vac adapter (included)  
 V = 11 Vdc to 32 Vdc (3 ft. cable)

**PRESSURE RANGE (PSI)**

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	

**REFERENCE**

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

**ELECTRICAL CONNECTION**

Z = No electrical connection (Model JPW - 9 V 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.*

**SANITARY FLANGE SIZE:**

P = 1.5 inches (up to 500 psi) (does not comply with 3A standards)  
 Q = 2.0 inches (up to 500 psi)  
 R = 2.5 inches (up to 400 psi)  
 S = 3.0 inches (up to 250 psi)

**FIELDSELECTABLE 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 = mm of mercury

*Consult factory for other units of measure not listed*

## NOTES

- The limit/relay models include two LED status indicators on front face and two form C relays (normally open, common, normally closed) that are rated at a maximum 24 Vdc/Vac at 1 A or 48 Vdc/Vac at 1/2 A.

**Warranty.** Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

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Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

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Email inquiries to [info.sc@honeywell.com](mailto:info.sc@honeywell.com)

### **WARNING** **PERSONAL INJURY**

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

### **WARNING** **MISUSE OF DOCUMENTATION**

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

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