

## Model JR

### Remote Pressure Digital Pressure Gauge

#### DESCRIPTION

With a 6-ft microchange cable connection, the Model JR 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 JR has no moving parts and may provide a long life with fewer re-calibrations. The JR 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 JRB provides a 4 mA to 20 mA, two-wire output. The Model JRE provides a 0 Vdc to 5 Vdc output. The Model JRR has two programmable limits and relays with no analog output. The Model JRX provides a 0 Vdc to 5 Vdc output with two pro-

grammable limits and relays for process control or alarm indication. The Model JRW is powered by one or two common 9 V alkaline batteries. The Model JRT is powered by a 110 Vac adapter. The Model JRV 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

- Portable battery powered available
- Two programmable limits and relays (optional)
- Test gauge accuracy - 0.2 % full scale
- High and low detection - Microprocessor based
- Ranges to 60000 psi - gage, absolute, vacuum, or compound
- Optional pressure port adapters
- 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
- NEMA 4 rating (optional)
- NIST traceable (optional)



# Model JR

## PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Linearity and hysteresis	0.2 % full scale (better than test gauge accuracy)
Pressure range 0 psi to	1, 5, 15, 30, 50, 100, 200, 300, 500, 750, 1000, 1500, 2000, 3000, 5000, 7500, 10000 psi (see Series JH for ranges above 10000 psi)
High and low capture	Standard
Update speed	3 times per sec
Zero and span signal adjustment	Standard: Models JRB, JRE, JRX

## ENVIRONMENTAL SPECIFICATIONS

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

## ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Rating	NEMA 2 (optional NEMA 4)
Power, Model JRW	One or two 9 V alkaline batteries (included)
Power, Model JRT	110 Vac adapter @ 60 Hz (included)
Power, Model JRV	11 Vdc to 32 Vdc @ 100 mA (3 ft cable included)
Power, Model JRB	11 Vdc to 32 Vdc (depending on loop resistance) @ 20 mA
Power, Model JRE	11 Vdc to 32 Vdc @ 100 mA
Power, Model JRR	11 Vdc to 32 Vdc @ 100 mA
Power, Model JRX	11 Vdc to 32 Vdc @ 100 mA
Electrical connection	3 ft from back of unit to power supply: Models JRB, JRE, JRR, JRX, JRV

## MECHANICAL SPECIFICATIONS

Characteristic	Measure
Diameter	93,98 mm [3.7 in]
Display	4½ LCD digits - 12,7 mm [0.5 in] high
Pressure port	1/4-18 NPT male (1 psi to 300 psi); 9/16-18 UNF-2B female straight thread with SAE spec J514 o-ring boss (500 psi and above)
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 JRW
Limits and relays	Models JRR and JRX

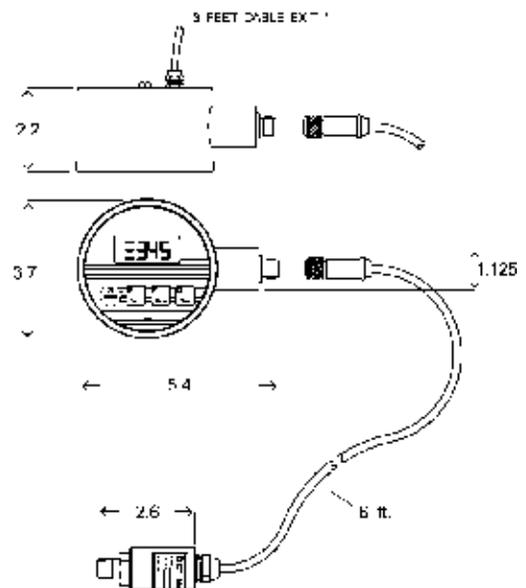
## ADDITIONAL SPECIFICATIONS

Pressure range (psi)	Maximum safe over pressure (psi) <sup>1</sup>	Model JR
0 psi to 1 psi = 1 (opt)	10	0.001
0 psi to 5 psi = 5 (opt)	25	0.005
0 psi to 15 psi = 15	75	0.01
0 psi to 30 psi = 30	150	0.02
0 psi to 50 psi = 50	250	0.05
0 psi to 100 psi = 100	500	0.1
0 psi to 200 psi = 200	1000	0.1
0 psi to 300 psi = 300	1200	0.2
0 psi to 500 psi = 500	1500	0.5
0 psi to 750 psi = 750	1500	0.5
0 psi to 1000 psi = 1K	2000	1
0 psi to 1500 psi = 1.5K	3000	1
0 psi to 2000 psi = 2K	4000	1
0 psi to 3000 psi = 3K	6000	2
0 psi to 5000 psi = 5K	7500	5
0 psi to 7500 psi = 7.5K	12000	5
0 psi to 10000 psi = 10K	15000	5

(See Series JH for ranges above 10000 psi)

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

## MOUNTING DIMENSIONS AND CHARACTERISTICS



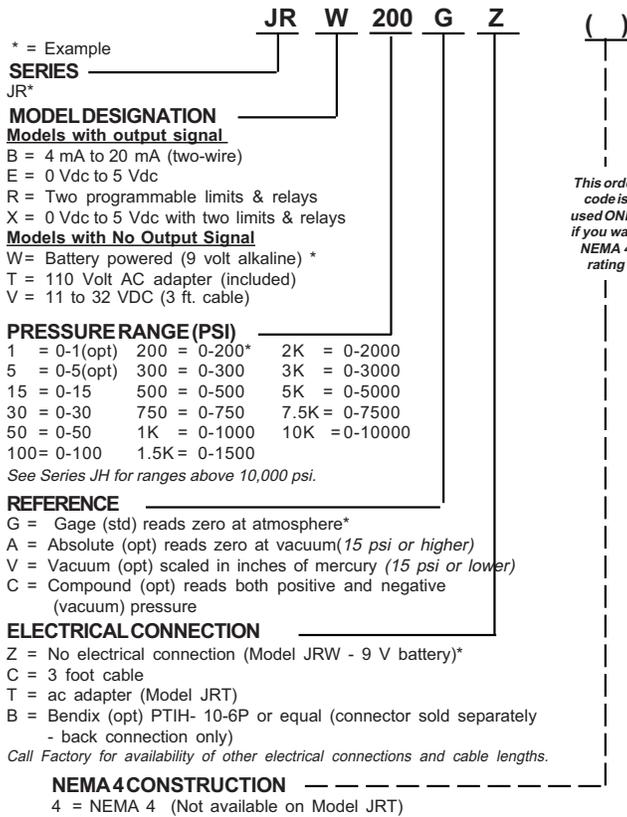
**\*Models JRB, JRE, JRR, JRX JRV**  
**No cable for battery powered Model JRW**

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

For reference only

# Model JR

## ORDER GUIDE



### 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.

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### 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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