

Remote Pressure Digital Pressure Gauge Model JR

Portable Battery Powered Available

2 Programmable Limits and Relays (Optional)

Test Gauge Accuracy - 0.2% Full Scale

High & Low Detection - Microprocessor Based

Ranges to 60,000 PSI - Gage, Absolute, Vacuum or Compound

With a 6 foot microchange cable connection, the Series 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 high accuracy over the entire pressure range. The JR has no moving parts and thus, ensures long life with fewer re-calibrations.

The JR 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 H₂O, etc.

The Model JRB provides a 4-20 mA, 2 wire output. The Model JRE provides a 0-5 VDC output. The Model JRR has 2 programmable limits and relays with no analog output. The Model JRX provides a 0-5 VDC output with 2 programmable limits and relays for process control or alarm indication.

The Model JRW is powered by one or two common 9-volt alkaline batteries. The Model JRT is powered by a 110 VAC adapter. The Model JRV 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 JR 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

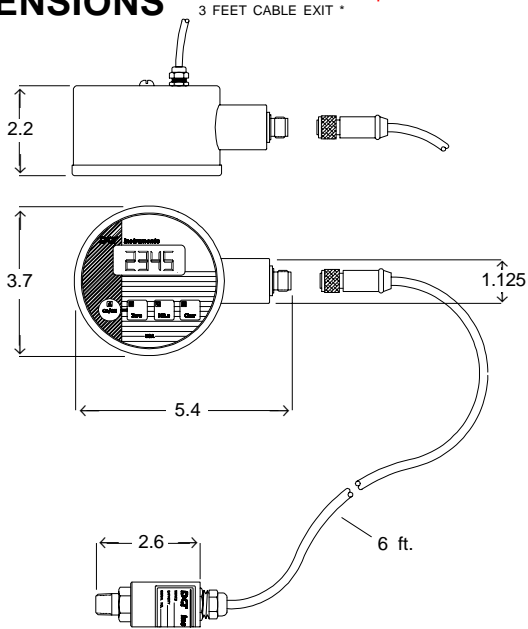
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DIMENSIONS



***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.

ACCESSORIES

PRESSURE ADAPTER (Zinc Plated Steel) (Stainless steel available)	ORDER CODE	
	1 to 300 PSI Units	500 to 10,000 PSI Units
To 1/4 - 18 NPT Female	AD13	AD6
To 1/4 - 18 NPT Male	--	AD7
To 7/16 - 20 UNF - Male with 37 deg flare	AD15	AD9

PANEL MOUNTING RING	MR2	MR2
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NIST CERTIFICATION (In addition to NIST STATEMENT) NISTCERTS 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:	1, 5, 15, 30, 50, 100, 200, 300, 500, 750, 1000, 1500, 2000, 3000, 5000, 7500, 10000 PSI (See Series JH for ranges above 10,000 psi)
Display:	4 1/2 LCD Digits - 0.5 inches high
Pressure Port:	1/4 - 18 NPT - Male (1 to 300 PSI) 9/16-18 UNF - 2B - Female straight thread with SAE Spec J514 O-ring boss (500 PSI and above)
Power:	Model JRW: One or two 9-volt alkaline batteries (included) Model JVT: 110 Volt AC adapter @ 60 Hz (included) Model JRV: 11 to 32 VDC @ 100 mA (3 ft. cable included) Model JRB: 11 to 32 VDC (depending on loop resistance)@20 mA Model JRE: 11 to 32 VDC @ 100mA Model JRR: 11 to 32 VDC @ 100mA Model JRX: 11 to 32 VDC @ 100mA
Electrical Connection:	Cable (3 ft.) from back of unit to power supply - Models JRB, JRE, JRR, JRX, JRV
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 JRB, JRE, JRX
Face Membrane:	Tactile Feedback Raised Buttons
Calibration Data:	Stored on Memory Chip
Low Battery Indication:	Standard on Model JRW
Limits & Relays:	Models JRR & JRX

[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

JR*

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 to 32 VDC (3 ft. cable)

PRESSURERANGE (PSI)

1 = 0-1(opt)	200 = 0-200*	2K = 0-2000
5 = 0-5(opt)	300 = 0-300	3K = 0-3000
15 = 0-15	500 = 0-500	5K = 0-5000
30 = 0-30	750 = 0-750	7.5K = 0-7500
50 = 0-50	1K = 0-1000	10K = 0-10000
100 = 0-100	1.5K = 0-1500	

See Series JH for ranges above 10,000 psi.

REFERENCE

- G = Gage (std) reads zero at atmosphere*
- A = Absolute (opt) reads zero at vacuum(15 psi or higher)
- V = Vacuum (opt) scaled in inches of mercury (15 psi or lower)
- C = Compound (opt) reads both positive and negative (vacuum) pressure

ELECTRICAL CONNECTION

- Z = No electrical connection (Model JRW - 9 volt battery)*
 - C = 3 foot cable
 - T = AC adapter (Model JRT)
 - B = Bendix (opt) PTIH- 10-6P or equal (connector sold separately - back connection only)
- Call Factory for availability of other electrical connections and cable lengths.

NEMA 4 CONSTRUCTION

- 4 = NEMA 4 (Not available on Model JRT)

FIELD SELECTABLE STANDARD UNITS OF MEASURE

- Bar = Bar
- MBar = Millibar
- kPa = Kilopascals
- MPa = Megapascals
- Ft H2O = Feet of water
- In H2O = Inches of water
- In Hg = Inches of mercury
- 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 - 1 = 1 (opt)	10	.001
0 - 5 = 5 (opt)	25	.005
0 - 15 = 15	75	.01
0 - 30 = 30	150	.02
0 - 50 = 50	250	.05
0 - 100 = 100	500	.1
0 - 200 = 200	1,000	.1
0 - 300 = 300	1,200	.2
0 - 500 = 500	1,500	.5
0 - 750 = 750	1,500	.5
0 - 1,000 = 1K	2,000	1
0 - 1,500 = 1.5K	3,000	1
0 - 2,000 = 2K	4,000	1
0 - 3,000 = 3K	6,000	2
0 - 5,000 = 5K	7,500	5
0 - 7,500 = 7.5K	12,000	5
0 - 10,000 = 10K	15,000	5

See Series JH for ranges above 10,000 psi.

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

This order code is used ONLY if you want NEMA 4 rating

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