

## Models AC and JC

---

### Portable Pressure Calibrators



#### DESCRIPTION

Constructed with stainless steel wetted parts and totally portable, the JC and AC Series pressure calibrators can handle many rugged applications and harsh environments. The circuitry is designed to withstand dropping and is immune to electromagnetic interference. The calibrators are fully battery powered (9 V) so they are easily transportable from site to site.

This versatile pressure calibrator is available in two accuracies: JC Series with 0.2 % accuracy and AC Series with 0.05 % accuracy. The calibrators have a 4½-digit display for accurate and easy readings. The high/low feature captures and holds both the highest and lowest pressure reading. (Press clear or off to reset). Operating temperatures are from -18 °C to 82 °C [0 °F to 180 °F]. The set includes the digital gauge, carrying case, NIST certificate, and pressure adapter.

#### FEATURES

- 0.2 % and 0.05% full scale accuracy
- Field selectable engineering units
- High and low and peak memory function
- Wetted stainless steel construction
- High over-pressure protection
- 4½ digit display with 0.5 in height
- EMI and RFI shielding for all types of industrial environments
- NIST traceable (standard)
- NEMA 4 rated for harsh environments
- Optional pressure ports
- Optional carrying case and panel mounting ring
- NIST traceable (optional)

# Models AC and JC

## PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Accuracy, JC Series	0.2 % of full scale
Accuracy, AC Series	0.05 % of full scale

## ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating (standard)	-1 °C to 71 °C [30 °F to 160 °F]
Temperature, operating (optional)	-18 °C to 82 °C [0 °F to 180 °F] (NEMA 4 option required) <sup>AK only</sup>

## ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Display, AC Series	4½ LCD digits, 0.5 in high
Display, JC Series	4 LCD digits, 0.5 in high

## MECHANICAL SPECIFICATIONS

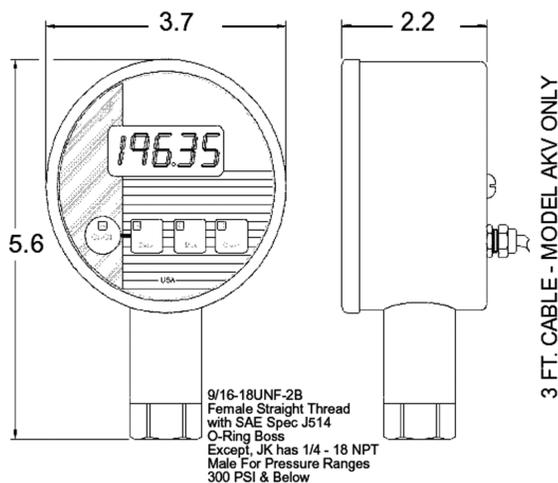
Characteristic	Measure
Wetted parts	Stainless steel
Case material	Stainless steel
High and low capture	Standard
Calibration data	Stored on memory chip

## ADDITIONAL SPECIFICATIONS

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

<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



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

For reference only

# Models AC and JC

# Portable Pressure Calibrators

## ORDER CODES

- \* = Example
- = Available on JC only

### SERIES

- JC\* = 0.2%
- AC = 0.05%

### POWER

- W = Battery powered (9 V alkaline)\*
- T = 110 Vac adapter (included)
- V = 11 Vdc to 32 Vdc (3 ft. cable)

### PRESSURE RANGE (PSI)<sup>Standard</sup>

- 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

### 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 & negative (vacuum) pressure

### ELECTRICAL CONNECTION

- Z = No electrical connection (Model JCW - 9 volt battery)\*
- C = 3 foot cable (Model JCV)
- T = ac adapter (Model JCT)

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

The following order codes are used ONLY if you want these options.

### OPTIONAL UNITS OF MEASURE

(AC is Front Panel Field Selectable, JC is Factory Set)

- Ft H2O = Feet of water                      Bar = Bar
- In H2O = Inches of water                    mmHg = mm of mercury
- In Hg = Inches of mercury                kPa = Kilopascals

Consult factory for other units of measure not listed

Note: PSI is standard

### NEMA 4 CONSTRUCTION

- 4 = NEMA 4 (not available on Model JCT or ACT)

OPTIONAL

JC W 200 G Z ( )

These order codes are used ONLY if you want special units of measure and/or NEMA 4 rating.

**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.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

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.

For more information about Sensing and Control products, visit [www.honeywell.com/sensing](http://www.honeywell.com/sensing) or call +1-815-235-6847

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.**

Sensing and Control  
Automation and Control Solutions  
Honeywell  
1985 Douglas Drive North  
Golden Valley, MN 55422 USA  
+1-815-235-6847  
[www.honeywell.com/sensing](http://www.honeywell.com/sensing)

008687-1-EN IL50 GLO  
May 2008  
Copyright © 2008 Honeywell International Inc. All rights reserved.

# Honeywell