Honeywell



Model AK

Digital Pressure Test Gauge

DESCRIPTION

The hand-held Model AK is an in-progress gauge or portable calibrator and delivers long-lasting, enhanced accuracy performance. Accuracy of 0.05 % coupled with an enhanced resolution, 4½-digit display makes this unit an excellent transfer standard for calibrating pressure measuring equipment.

The AK is rugged and features high/low pressure capture with a field-adjustable update rate from three to 10 times per sec-

ond. These units are manufactured from stainless steel and use sensor technology which has no moving parts, requires little recalibration and has excellent overpressure tolerance. Optional NEMA 4 rating extends the operating temperature to -18 °C to 82 °C [0 °F to 180 °F]. Units of measure are field-selectable and the unit is offered with gage, absolute, vacuum, or compound reference.

* with optional NEMA 4 rating

FEATURES

- High accuracy: 0.05 % full scale
- 0 °F to 180 °F operating temperature*
- Enhanced resolution
- Stainless steel construction
- Field-selectable units of measure
- 4½ digit display with 0.5 in height
- Customer recalibration
- On/Off switch
- CE compliant (certain models, consult factory)
- NEMA 4 rating (optional)
- Optional carrying case and panel mounting ring
- Optional pressure ports
- NIST traceable (optional)
- 9 V battery power
- High/low capture and store

Model AK

PERFORMANCE SPECIFICATIONS

Characteristic	Measure	
Accuracy	0.05 % of full scale BFSL	
Pressure ranges 0 psi to	15, 50, 100, 200, 500, 750, 1000, 1500, 2000, 5000, 7500, 10000 psi	

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)

ELECTRICAL SPECIFICATIONS

Characteristic	Measure	
Rating	NEMA 2 (NEMA 4 optional, except AKT)	
Display	4½ LCD digits - 12,7 mm [0.5 in] high	
Power, Model AKW	One or two 9 V alkaline batteries (included)	
Power, Model AKT	110 Vac adapter @ 60 Hz (included)	
Power, Model AKV	11 Vdc to 32 Vdc @ 100 mA (3 ft cable included)	

MECHANICAL SPECIFICATIONS

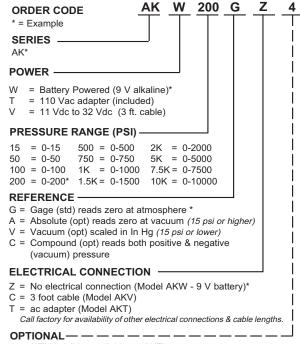
Characteristic	Measure	
Physical diameter	93,98 mm [3.7 in]	
Pressure port	9/16-18 UNF-2B, female straight thread with SAE spec J514 0-ring boss	
Wetted parts	Stainless steel	
Case material	Stainless steel	
Low battery indication	Standard	
High and low capture	Standard	
Update speed	Adjustable from 3 to 10 per second	
Face membrane	Tactile feedback raised memory chips	
Calibration data	Stored on memory chip	

ADDITIONAL SPECIFICATIONS

Pressure range (psi)	Maximum safe over pressure (psi)1	Incremental display steps
0 psi to 15 psi = 15	75	0.005
0 psi to 50 psi = 50	250	0.01
0 psi to 100 psi = 100	500	0.02
0 psi to 200 psi = 200	1000	0.05
0 psi to 500 psi = 500	1500	0.1
0 psi to 750 psi = 750	1500	0.2
0 psi to 1000 psi = 1K	2000	0.2
0 psi to 1500 psi = 1.5K	3000	0.5
0 psi to 2000 psi = 2K	4000	0.5
0 psi to 5000 psi = 5K	7500	1
0 psi to 7500 psi = 7.5K	12000	2
0 psi to 10000 psi = 10K	15000	2

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

ORDER CODES



4 = NEMA 4 (Not available on AKT)

NEMA 4 option also provides temperature range of 0-180°F

FIELD SELECTABLE STANDARD UNITS OF MEASURE

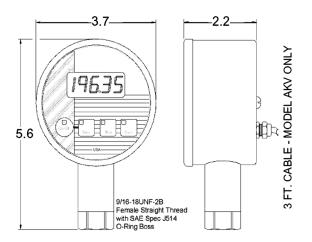
Each gauge has the following scaling built in for field selection:

Bar = Bar Ft H20 = Feet of water mBar = Millibar In H20 = 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

Model AK

MOUNTING DIMENSIONS AND CHARACTERISTICS



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

For reference only

Notes

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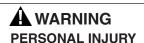
Digital Pressure Test Gauge

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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 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.

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- 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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