Installation Instructions for the

ISSUE 2

Fixed Output, Amplified Calibrated with Internal Voltage Reference Pressure Sensors

PK 80166

XRA5 Series

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.

GENERAL INFORMATION

The XRA5 Series uses state-of-the-art silicon micromachined pressure sensors in conjunction with stress-free packaging techniques to provide highly accurate, amplified, calibrated and temperature compensated pressure sensors for the most demanding applications.

Unique to this series is the internal voltage reference that provides a fixed internal voltage when using variable supply voltage.

All other features are the same for the entire family, incorporating stress isolation and factory calibration to achieve optimum accuracy in this industry standard package.

SOLDERING/ASSEMBLY

Limit soldering to 315 °C [600 °F] maximum, with duration of five seconds maximum. Leads must be adequately supported during any forming/shearing operation to ensure that the leads are not stressed inside the plastic case.

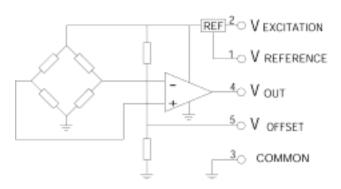
ELECTRICAL SPECIFICATIONS @ 25 °C, 12 VDC (UNLESS OTHERWISE NOTED)

Pressure Range	0 in to 4 in H ₂ O
	0 in to 10 in H ₂ O
	1.0 psi to 150 psi
Offset - Gage and Absolute	1.0 Vdc Typ.
Offset - Differential	3.5 Vdc Typ.
Span -Gage and Absolute	5.0 Vdc Typ.
Span - Differential	±2.50 Vdc Typ.
(with ± pressure applied)	
Supply Voltage	7.0 Vdc to 24.0 Vdc

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-25 °C to 85 °C
	[-13 °F to 185 °F]
Storage Temperature	-40 °C to 125°C
	[-40 °F to 257 °F]
Hysteresis and	0.3% Span, Typ.
Linearity	
Repeatability	±0.1 %Span, Typ.
Media Compatibility	P1 Port (Dry Gases Only): Media must be compatible with epoxy-based adhesive. P2 Port: Media must be compatible with nylon housing, epoxy adhesive and silicon.

EQUIVALENT CIRCUIT

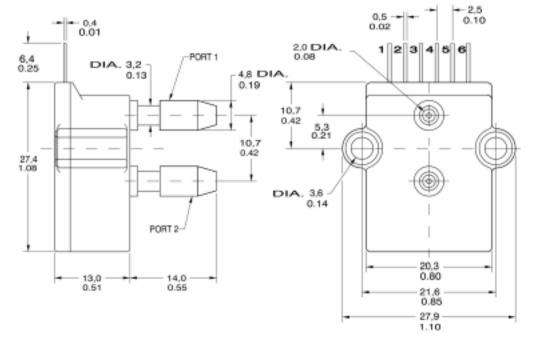


PIN DESIGNATIONS

- 1. V Reference
- 2. V Excitation
- 3. Common
- 4. V Output
- 5. V Offset
- 6. N/C

XRA5 Series ISSUE 2 PK 80166

MOUNTING DIMENSIONS (for reference only) mm/in



WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

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.

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.

For application assistance, current specifications, or name of the nearest Authorized Distributor, contact a nearby sales office. Or call:

- 1-800-537-6945 USA
- 1-800-737-3360 Canada
- 1-815-235-6847 International

FAX

1-815-235-6545 USA

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