

Installation Instructions for the Test and Measurement Pressure Sensors

ISSUE 1
50078934

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

RISK TO LIFE OR PROPERTY

- Never use this product for an application involving serious risk to life or property without ensuring that the system as a whole has been designed to address the risks, and that this product is properly rated and installed for the intended use within the overall system.

Failure to comply with these instructions could result in death or serious injury.

GENERAL INFORMATION

PRESSURE OVERLOADS

CAUTION

PRODUCT DAMAGE

- Do not exceed the pressure overload rating. Refer to the model-specific overload ratings on the web site.

Failure to comply with these instructions may result in reduced life, or electrical failure.

The Honeywell Test and Measurement family of pressure sensors are designed to withstand high overloads; however, if the overload rating is exceeded, the life of the product may be reduced and either electrical and/ or mechanical failure may occur. Both static and dynamic overloads must be considered, particularly in hydraulic system applications. Hydraulic pressure fluctuations can have very high and very fast peak pressures, as in a water hammer effect.

An oscilloscope is recommended for determining if high-pressure transients exist in a system. If system pressure pulses are expected, choose a sensor with a pressure rating high enough to allow continuous operation at the highest expected pressure spikes.

In some applications, a pressure 'snubber' may be used to reduce the peak pressure applied to the sensor. Snubbers may be obtained from the Mott Corp., Farmington, CT, USA (860) 747-6333. Catalog #4100-1/8-SS is recommended.

The Honeywell Test and Measurement pressure products are rated for immunity-to-electrical noise; however, care should be taken when used around high voltage sources that emit high levels of radiated electromagnetic energy like variable frequency motor drives, solenoids, radio transmitters and engine ignition systems. The use of shielded cable and proper grounding techniques is also recommended.

MEDIA COMPATIBILITY

CAUTION

PRODUCT DAMAGE

- Use non-abrasive, chemically compatible media to prevent damage to diaphragm or port materials.

Failure to comply with these instructions may result in product failure.

INSTALLATION

CAUTION

PRODUCT DAMAGE

Care should be taken while connecting the sensor's process interface. The use of properly sized hand tools, that are designed for the task, is required to reduce the chance of damage. Torque should never be applied to either the connector housing or the body of the sensor.

- Do not subject the sensor to high temperatures from soldering, brazing, or welding of the system plumbing or operating environments above the specified maximum temperature.

Failure to comply with these instructions may result in product damage.

ELECTROMAGNETIC ENERGY/NOISE

CAUTION

PRODUCT DAMAGE/ERRATIC OPERATION

- Do not use in areas where electromagnetic energy may affect sensor operation.

Failure to comply with these instructions may result in improper operation and/or product failure.

BENCH TEST

For incoming inspection or sensor failure evaluation, connect the sensor to a dc voltage supply. The supply voltage should be set within the range specified for the model. Based on the sensors specified output, connect the output lead(s) to an appropriate meter. With no pressure on the sensor, turn on the power supply and read the output signal on the meter. Balance on low-range units can be affected by sensor orientation. The reading should correspond to the specification indicated for null offset. If not, check the connections, wire color code and the setting of the power supply.

WIRING INSTRUCTIONS

The wiring instructions for all Honeywell Test and Measurement pressure products can be found on the serialized calibration certificate supplied with each sensor. When using a mating connector it is important to use the correct size wire to ensure environmental sealing. Contact the individual connector manufacturer for further mating connector wiring instruction.

If you have an intrinsically safe-rated product, following the wiring instructions in the Intrinsically Safe Installation Manual shipped with the product. For model-specific information, please refer to the Test and Measurement web site.

WARRANTY/REMEDY

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 other 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.

SALES AND SERVICE

Honeywell serves its customers through a worldwide network of sales offices, representatives, and distributors. For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact your local sales office. To learn more about Honeywell test and measurement products, contact us via

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