

MODEL 672

Pressure Transducer

- 0-15 psi Air Pressure Input
- 4-20 mA Output
- 5-Year Unconditional Warranty



DESCRIPTION

The **Model 672 Pressure Transducer**, part of the **600 series** line of instrumentation controls, is a differential pressure transducer. The 0-15 psi input allows the Model 672 to output a proportional 4-20mA signal. It can be DIN rail-mounted or mounted in a standard 8-pin socket.

The Model 672 may be used to provide the input signal for other instrumentation controls, including the following Time Mark controls in the 600 series instrumentation line:

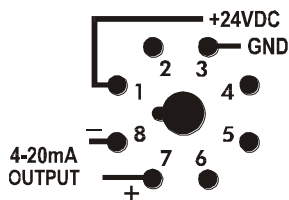
- Model 660** Trip Control
- Model 661** Alarm Control
- Model 662** Pump Up Control
- Model 663** Pump Down Control
- Model 670** Buffer/Scalar
- Model 681** Digital Meter

SPECIFICATIONS

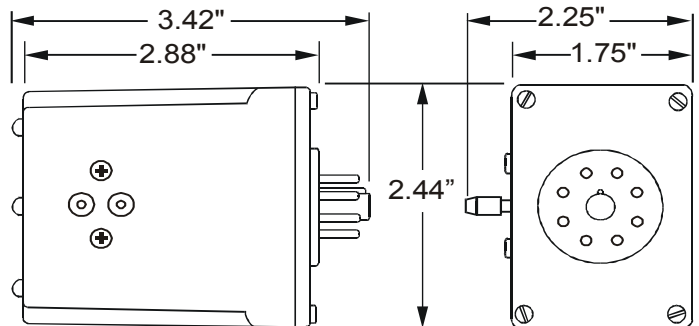
Model	672
Input Voltage	24VDC \pm 5%
Power Consumption	1W maximum
Air Pressure Input	0 to 15 psi
Max. Air Pressure	30 psi
Input Air Supply Fitting	3/16" I.D. tubing
Repeat Accuracy	\pm 1%
Signal Output	4-20mA proportional to 0-15 psi (in water: 0-15 psi = 0 to 34.6 feet at 77° F)
Max. Load Resistance	500 ohms
Compensated Temp	+32° to +158° F
Operating Temp	-13° to +185° F
Enclosure Material	ABS plastic
Mounting	8-pin socket (*order separately)
Weight	3 oz.

* Order 8-pin socket number **51X120**

PIN DIAGRAM



DIMENSIONS



(dimensions have tolerance of \pm 0.06)

MODEL 672 Pressure Transducer

READ ALL INSTRUCTIONS BEFORE INSTALLING, OPERATING OR SERVICING THIS DEVICE.
KEEP THIS DATA SHEET FOR FUTURE REFERENCE.

GENERAL SAFETY

THE MODEL 672 PRESSURE TRANSDUCER IS NOT TO BE USED WITH INPUT VOLTAGES OTHER THAN 24VDC. ALL ELECTRICAL POWER SHOULD BE REMOVED WHEN CONNECTING OR DISCONNECTING WIRING. THIS DEVICE AND WIRING SHOULD BE INSTALLED AND SERVICED BY QUALIFIED PERSONNEL.

Installation Instructions

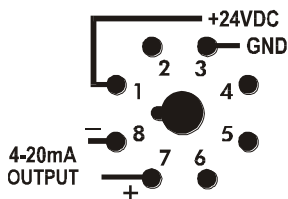
INSTALLATION

Observing the pin diagram shown below and on the unit, connect the Model 650 Power Supply, or other regulated 24 VDC power source to pins 1 and 3 on the 8-pin socket.

Connect the output leads for the 4-20mA current loop to pins 7 and 8. **Pay careful attention to polarity.**

NOTE: When installing the Model 672 Transducer in areas of high humidity or contamination, it is recommended that the base area and all exposed metal parts of the socket be coated liberally with a good quality silicone grease, such as Dow Corning DC-4 or DC-4X. Insert the unit into the socket and wipe off excess grease around the base. This will prevent the entrance of moisture and other contaminants into the base and socket areas.

PIN DIAGRAM



Connect a 3/16" I.D. air hose to the Model 672 INPUT hose connection. Connect the other end of the input hose to the measurement device air pressure output.

Connect a 3/16" I.D. air hose to the Model 672 REFERENCE hose connection. Connect the other end of the input hose to the reference pressure source. **If the reference source is atmospheric pressure, do not connect a hose to the REFERENCE hose connector.**

TROUBLESHOOTING

Should the Model 672 Pressure Transducer fail to operate, check the power supply connections, making sure that the polarity and voltage levels are correct. Verify that all electrical connections are firmly attached to the terminals.

Check the full length of the air hose and hose connections, to insure there are no pressure leaks. Connect a known pressure source to the INPUT connection, while measuring the output current from pins 7 and 8.

The output current must have a complete circuit, through the controller, returning to the pressure transducer. Should problems persist, contact the factory for assistance.

WARRANTY

This product is warranted to be free from defects in materials and workmanship, and is covered by our exclusive **5-year Unconditional Warranty**. Should this device fail to operate for any reason, we will repair it for five years from the date of manufacture. For complete warranty details, see the Terms and Conditions of Sales page in the front section of the Time Mark catalog or contact Time Mark at 1-800-862-2875.



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