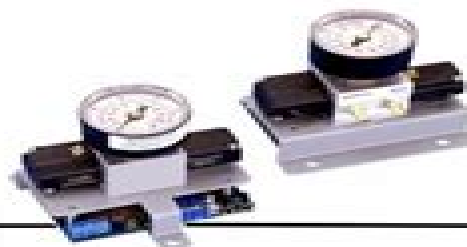




Electropneumatic Transducer IP-411 and IP-413



M3073/G303



SPECIFICATIONS

Accuracy^{*}: $\pm 1\%$ FS

Maximum Supply Pressure: 40 PSIG

Pressure Differential: 0.1 PSIG (supply to branch)

Supply Voltage: 18 to 28 VAC or VDC

Supply Current: 150 mA

Enclosure: 18 Ga. C.R. steel chassis

Finish: Baked on enamel FM309888

Conformance: EMC standards EN50082-1/EN921, EN50074-1/EN921, EN50073-1/EN921

Compensated Temperature Range: 20°F to 150°F (4°C to 65°C)

T. C. Error: $\pm 0.025\%/^{\circ}\text{F}$ ($0.001\%/^{\circ}\text{C}$)

Media Compatibility: Clean dry air or any inert gas

Port Connection: 1/4-inch O.D. poly tubing

Environmental: 10 to 90% for non-condensing

Termination: Screw terminal block

Wire Size: 12 Ga. maximum

Input Impedance: 301 ohms (4 - 20 mA); 10K ohms (0 - 5 or 0 - 10 VDC)

Weight: 1.0 to 1.45 kg

^{*} Includes nonlinearity, hysteresis, and non-repeatability.

INSTALLATION PRECAUTIONS

Do not use on an oxygen service, in an explosive or hazardous environment, or with flammable or combustible material.

Disconnect the power supply before installing the transducer. Failure to do so can result in electrical shock and equipment damage.

Make all connections in accordance with the job wiring diagram and national and local electrical codes. Use only copper conductors.

Use electrostatic discharge precautions such as wrist straps when installing and wiring the transducer.

Do not exceed ratings for the transducer.

This transducer contains a half-wave rectifier power supply and must not be powered from transformers powering other devices with non-isolated full-wave rectifier power supplies.

Verify that the main supply pressure does not exceed 40 PSIG.

Ensure a minimum of 6 to 10 feet (1.8 to 3.0 m) of tubing between the transducer and the actuator.

For a 24 VDC supply voltage, make sure that the hot and neutral are not reversed. If more than one transducer is being powered from the same transformer, the hot and neutral should be the same for each transducer.

MOUNTING

The electropneumatic transducer must be mounted in an upright position so that the main and branch ports face upwards and the gauge can be read easily.

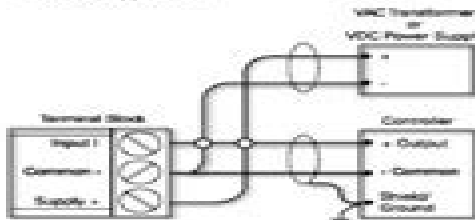
1. Select the mounting location.
2. Mount the transducer on a vertical surface with three #8 self-tapping screws (not provided).

3. Pull wires through the bottom of the transducer and make the necessary connections.
4. Make the pneumatic connections.

WIRING

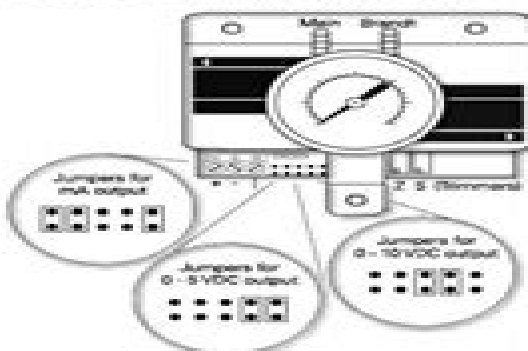
Use maximum 12 AWG wire for wiring terminals and flexible 1/4-inch O.D. poly tubing for main and branch pneumatic connections. The electropneumatic transducer can be powered with a 18 to 28 VAC or VDC supply.

1. Connect the power supply voltage wire to the supply (+) terminal and the power supply common to the common (-) terminal.
2. Connect the controller output wire to the input (I) terminal and the controller common wire to the common (-) terminal.



JUMPER CONFIGURATIONS

Jumpers configuration varies by output type: mA or VDC.



CHECKOUT

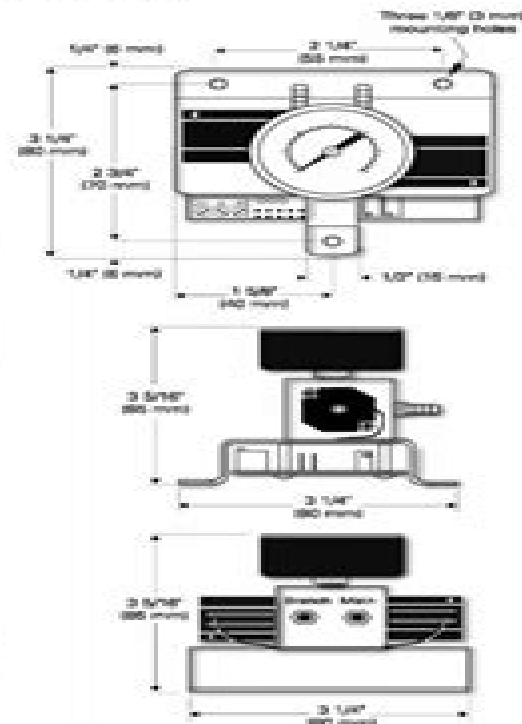
To verify proper operation of the transducer, adjust the input signal to obtain a maximum output pressure for the appropriate range. The output should be 15 or 20 mmHg. Next, adjust the input signal to obtain a minimum output pressure. The output should be 0 or 2 mmHg.

CALIBRATION

All electropneumatic transducers are factory calibrated to meet or exceed published specifications. If field adjustment is necessary, follow these instructions:

1. Connect air to the Main port.
2. Connect an accurate gauge to the Branch port using a minimum of 6 to 10 feet (1.8 to 3.0 m) of tubing.
3. Connect an 18 to 28 VAC or VDC power source to the (+) and (-) terminals. The maximum supply voltage should not exceed 30 VAC/VDC.
4. Apply a low input signal to the (I) and (C) terminals (0 VDC or 4 mA).
5. Adjust (S) to obtain the desired low output pressure.
6. Apply a high input signal to the (I) and (C) terminals (0 - 10 VDC or 20 mA).
7. Adjust (S) to obtain the desired high output pressure.
8. Repeat steps 4 through 7 until the transducer is fully calibrated.

DIMENSIONS



Omega Engineering User Manual

Yijin Wang



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