ASHCROFT RXLdp Differential Pressure Transmitter Instructions

Contents

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WARNING! READ BEFORE INSTALLATION

GENERAL

A failure resulting in injury or damage may be caused by excessive overpres-sure, excessive vibration or pressure pulsation, excessive instrument temper-ature, corrosion of the pressure con-taining parts, or other misuse. Consult Ashcroft Inc., Stratford, Connecticut, USA before installing if there are any questions or concerns.

OVER PRESSURE

Pressure spikes in excess of the rated overpressure capability of the transducer may cause irreversible electrical and/ or mechanical damage to the pressure measuring and containing elements.

STATIC ELECTRICAL CHARGES

Any electrical device may be suscep-tible to damage when exposed to static electrical charges. To avoid damage to the transducer the operator/installer should follow proper ESD (electrostatic discharge) protection procedures before handling the pressure transducer.

Description

The Ashcroft Model RXLdp is a low differential pressure transducer to be used with clean, dry air and other noncorrosive gases. Both unidirectional (e.g., 0/1.0 in. W.C.) and bidirectional (e.g., ±3.0 in. W.C.) pressure ranges are offered, as well as a wide selection of output signals. The storage tempera-ture limits of the RXLdp are from –40 to 180°F. The unit operates between 0 and 160°F and is temperature compen-sated between 40 and 125°F.

Mounting

The unit should be mounted with #6 or #8 screws using the two mounting holes provided. Easy access to the zero adjustment may be a consideration when mounting. The transducer can be mounted in any orientation with virtually no effect on calibration. Any minor zero pressure offsets that are encountered can be adjusted using the zero adjust potentiometer.

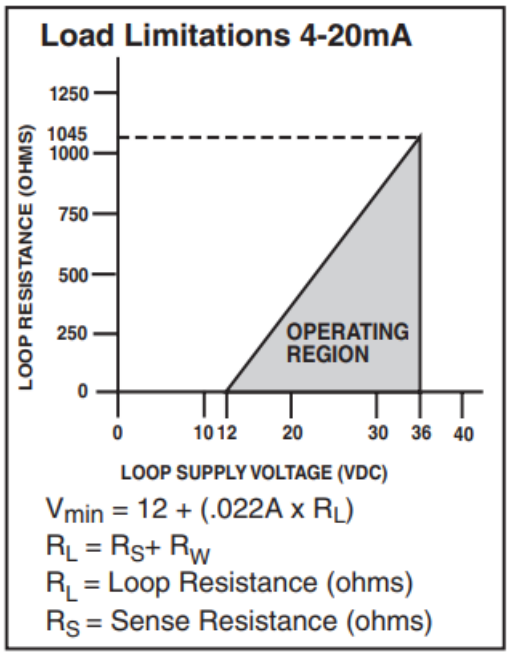
Piping
The two pressure connections are pro-tected with tubing to avoid debris enter-ing the unit. It should be left in place until system tubing is to be connected. The Ashcroft Model RXLdp can withstand overpressure or vacuum up to 15 psi without requiring a recalibration.

Recommended flexible tube sizes should be as follows:
1/4 barb: < 3⁄16″ ID tube
1/8 barb: < 1⁄16″ ID tube

Power Requirements

Voltage Output:
The Model RXLdp will operate on any unregulated supply voltage from 12-36 Vdc (24 Vdc typical) and will draw less than 5mA.

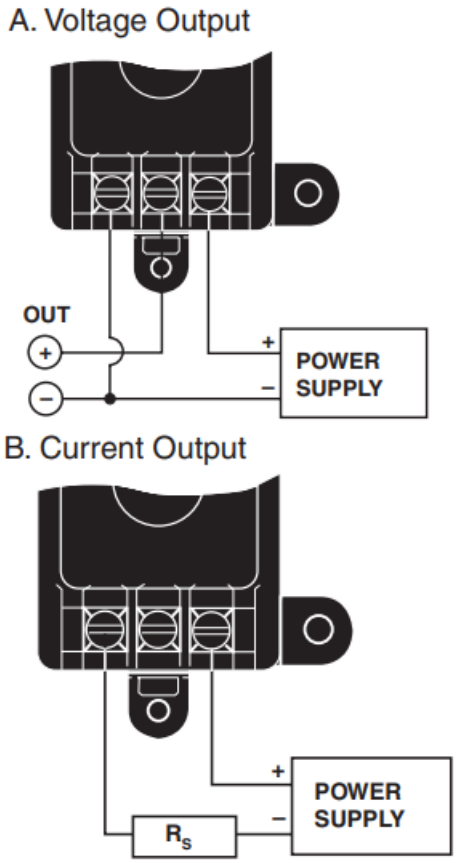
Current Output:
The voltage required for 4-20mA output is dependent on the loop resistance of the circuit. The figure below shows the minimum supply voltage (Vmin) required for a given Loop Resistance (RL).



Electrical Connections

With pressure connection options (With Case)

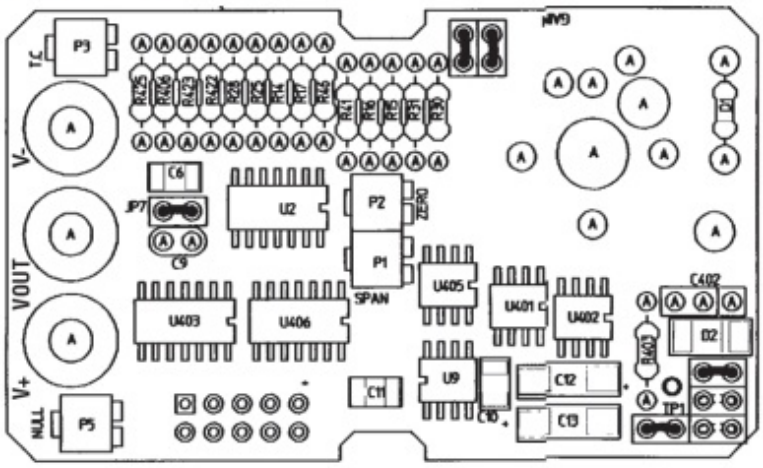
- F01 1⁄ 8 NPT female
- MB2 1⁄ 4 barbed
- MB8 1⁄ 8 barbed



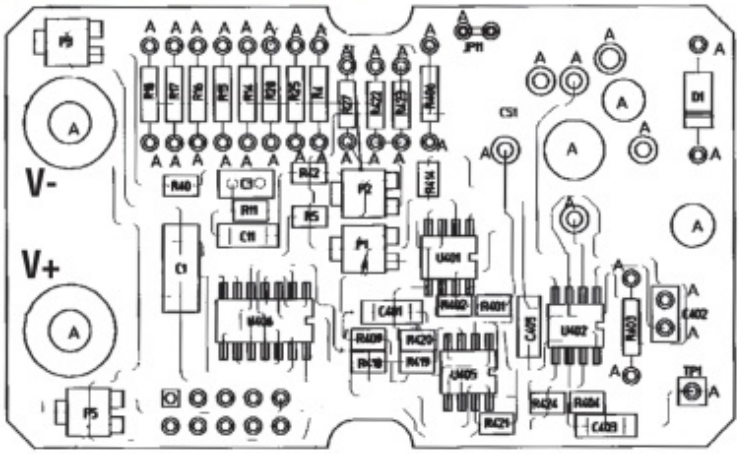
MODEL RXLdp INSTRUCTION SHEET

Electrical Connections
With pressure connection option MB1 (No Case)

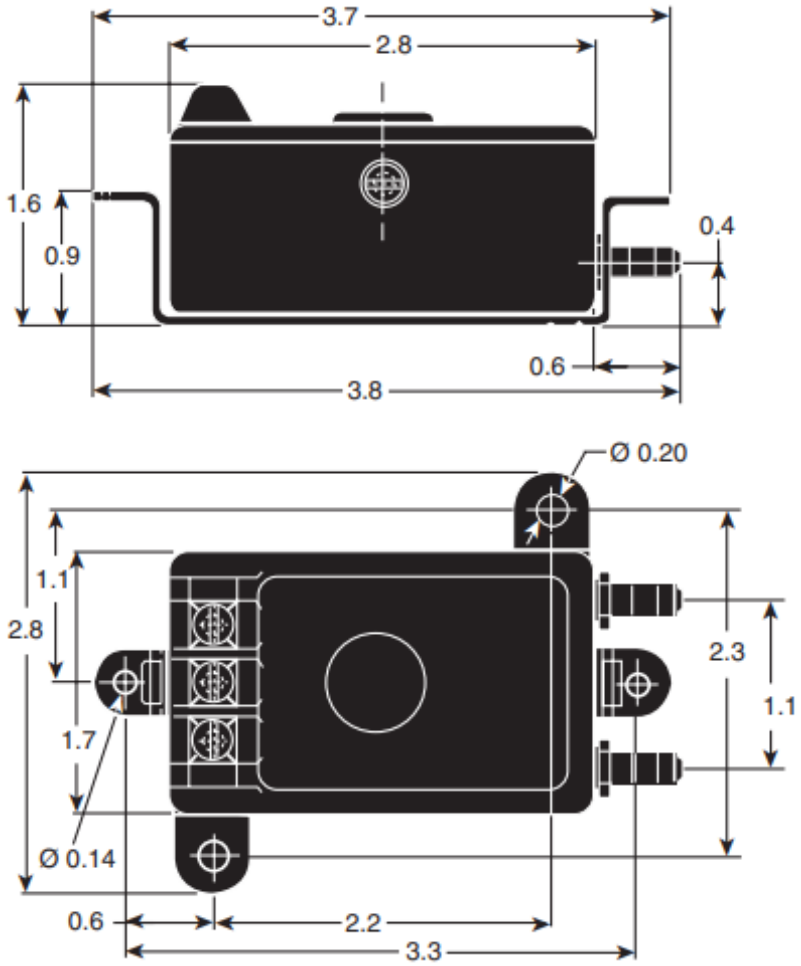
A. Voltage Output



B. Current Output

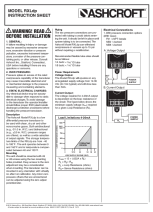


General Dimensions (IN INCHES)



All sales subject to standard terms and conditions of sale. I&M 011-10071 (250-3117). Rev. B 11/11

Documents / Resources

	ASHCROFT RXLdp Differential Pressure Transmitter [pdf] Instructions RXLdp Differential Pressure Transmitter, RXLdp, Differential Pressure Transmitter, Pressure Transmitter, Transmitter

References

- Pressure Instruments - Temperature Instruments | Ashcroft