MODEL DXLdp DIFFERENTIAL PRESSURE TRANSMITTER OPERATING & INSTRUCTION SHEET

▲ WARNING! READ ▲ BEFORE INSTALLATION

1. GENERAL:

A failure resulting in injury or damage may be caused by excessive overpressure, excessive vibration or pressure pulsation, excessive instrument temperature, corrosion of the pressure containing parts, or other misuse. Consult Ashcroft Inc., Stratford, Connecticut, USA before installing if there are any questions or concerns.

2. OVERPRESSURE:

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.

3. STATIC ELECTRICAL CHARGES:

Any electrical device may be susceptible 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:

Congratulations on your purchase of the Ashcroft[®] Model DXLdp low differential pressure transmitter. The DXLdp utilizes the same highly reliable variable capacitance sensor used in traditional Ashcroft XLdp family of low differential transmitters. A selection of both unidirectional and bi-directional pressure ranges are offered, accuracy's of 1%, 0.5% and 0.25% and a wide assortment of output signals.

The DIN rail-mounting package offers a new and efficient use of mounting space for enclosure mount applications. Optional features such as the SpoolCal™ process valve actuator, LED's with front access test sockets and 2:1 turn down provide added value when validating a process on line or calibrating the unit. These options are available through suffixed (X) variations on the part number. Contact the factory for DXLdp upgrades.

Media:

The DXLdp is designed to measure clean, dry non-corrosive gases. (Consult with factory for use on other media). Not for use on liquids.

Mounting:

The unit can mount to three types of Din sizes including EN50022, EN50035 & EN50045 (not included). When securing to EN50022 rail first hook the top portion of the rear clip onto the top of the rail and push gently into place. To remove simply place finger behind lower rear lever and pull forward. To remove from the EN50035 rail, grasp the unit, push up and rotate the bottom out. For the EN50045, pull down and rotate the bottom out.

Multiple units can be stacked accross the rail. Internal circuitry is vented through the bottom of each unit. Tag holes are fabricated into the lower rear lever and the housing below the terminal strip for calibration reference tagging and/or ID location. Refer to Drawing #1.

Power requirements:

The DXLdp is wired (3 wire) (2 wire) for Voltage and Current output respectively. Reference Drawing #2.

Voltage Output

The DXLdp will operate on any supply voltage from 12-36Vdc drawing less than 10mA in full function LED variations (24Vdc typical).

Current Output

The voltage required for a 4-20mA output is dependent on the loop resistance of the circuit. Refer to Drawing #3 showing the minimum supply voltage (Vmin) required for a given Loop Resistance (R_L).

OPTIONS

The three options available include LED (XDL), SpoolCalTM (XPV) and 2:1 Turn down (X21).

OPTION: LED RANGE INDICATION (XDL) Provides a quick visual in/out of range status or

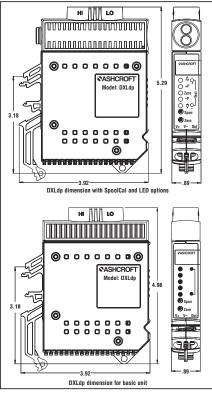
diagnostic indication. Not to be used for calibration reference. This feature includes front access test jacks for uninterrupted signal reference.

| LED INDICATION | TYPICAL ACCURACY |
|-----------------------|------------------|
| Amber | ±3% on |
| Zero Pressure | nominal zero |
| Green | Beyond ±3% to |
| In Range Pressure | ±106% of range |
| Red | Beyond ±106% |
| Out of Range Pressure | of range |

LED Activation:

- Unidirectional ranges
- Red, top & bottom LED
 Green, top LED
- Bidirectional ranges • Red, top & bottom LED • Green, top & bottom LED
- Amber, center LED Green, top & bollorn • Amber, center LED

Standard Mounting Position



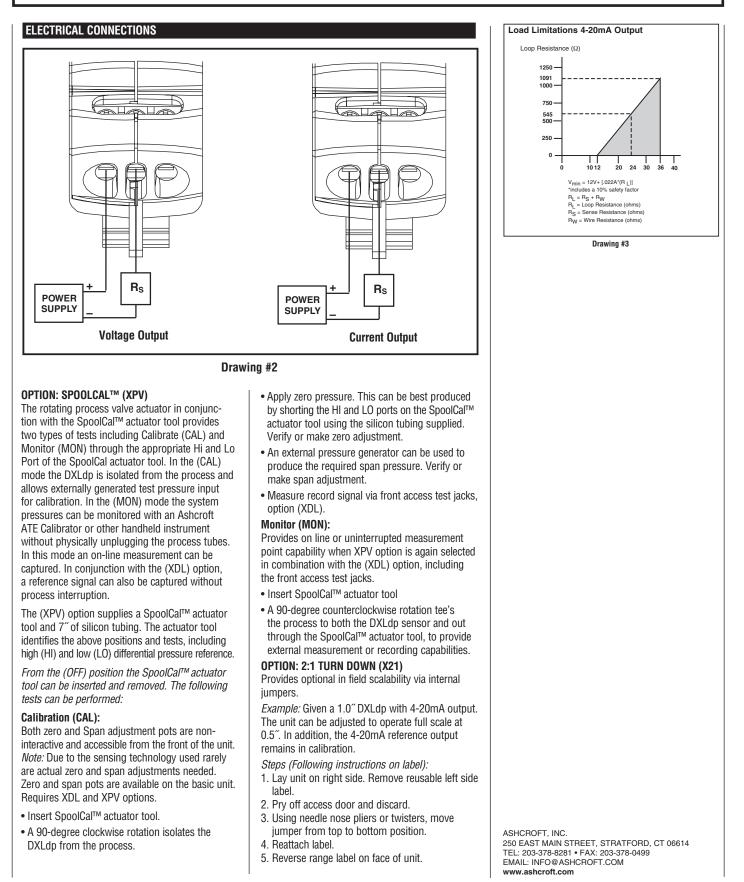
Drawing #1

Front Access Test Jacks:

Provides on-line process reference signal or calibration signal without disconnecting power supply wiring. Measurements can be made using a standard multi-meter or data collection instrument. Contact the factory for more information on the Ashcroft ATE handheld calibrator. Reference signals through the test jacks are made in series for 4-20mA output and in parallel for voltage output. Gold plated contacts accept standard 0.08" microtip test leads, snapping in place for secure measurements.

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