



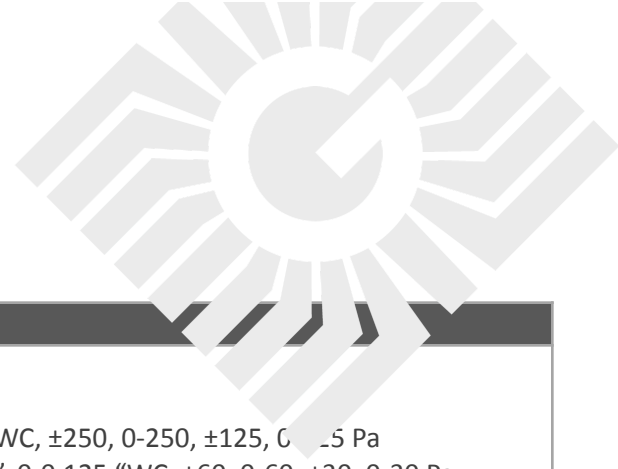
ULTRA LOW PRESSURE TRANSMITTER

UP SERIES

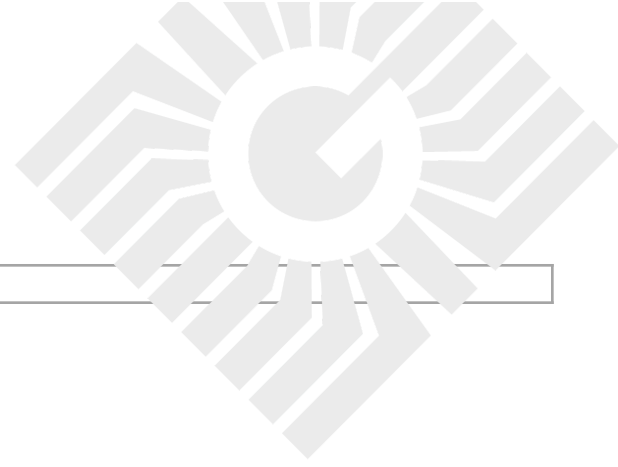
The Ultra Low Pressure Transducer is used to measure differential pressure up to 1"wc or 250 Pa and transmit via Analog and BACnet® Communications. It combines precision high sensitivity silicon sensing capabilities and the latest ASIC technology to substantially reduce offset errors due to changes in temperature, stability to warm-up, long term instability and position sensitivity. It is ideal for monitoring pressure for air or other clean inert gas. It features bi-directional pressure measurement, an on-board auto-zero function, a backlight LCD to display the pressure value and an alarm relay with variable trip points. The device is field-configurable via the local menu or the BACnet® connection. A weatherproof Polycarbonate enclosure with a hinged and gasketed cover is provided for ease of installation.

PRODUCT HIGHLIGHTS

- Measure differential pressure up to 1" WC or 250 Pa
- provide either an analog or BACnet® compatible signal to a building automation system.
- LCD with user menu
- Four selectable pressure ranges
- RS-485 network with either BACnet® protocol
- Onboard auto zero function
- Alarm output with adjustable high and low alarms
- Weatherproof Enclosure


SPECIFICATIONS

| DESCRIPTION | ENGINEERING SPEC |
|----------------------|--|
| PRESSURE RANGES | UPB1B: ± 1 "WC or ± 250 Pa UPB2B: ± 0.25 "WC or ± 60 Pa UPB1A: ± 1 ", 0-1", ± 0.5 ", 0-0.5 "WC, ± 250 , 0-250, ± 125 , 0-125 Pa UPB2A: ± 0.25 ", 0-0.25", ± 0.125 ", 0-0.125 "WC, ± 60 , 0-60, ± 30 , 0-30 Pa |
| ACCURACY | $\pm 1\%$ F.S. of selected range @ 22°C (72°F) including hysteresis, non-linearity and repeatability |
| STABILITY | $\pm 1\%$ FS max (1 year) |
| THERMAL EFFECTS | $\pm 2\%$ F.S. maximum, 10 to 40°C (50 to 104°F) |
| RESPONSE TIME | BACnet®: 1 to 60 seconds, menu or BACnet® selectable Analog: 5 or 30 seconds, switch selectable |
| MEDIA COMPATIBILITY | Dry air and inert gas |
| PROOF PRESSURE | UPB1: 100 "WC (24.9 kPa) UPB2: 40 "WC (9.96 kPa) |
| BURST PRESSURE | UPB1: 200 "WC (49.8 kPa) UPB2: 80 "WC (19.9 kPa) |
| ZERO ADJUSTMENT | Pushbutton auto-zero |
| POWER SUPPLY | 24 Vac/dc, $\pm 10\%$ |
| CONSUMPTION | Analog: 37 mA maximum BACnet®: 52 mA maximum |
| PROTECTION CIRCUITRY | Reverse voltage protected and output limited |
| INPUT VOLTAGE EFFECT | Negligible over specified operating range |
| LCD DISPLAY | Size: 38.1 x 16.5 mm (1.5" x 0.65") Digit Height: 11.43 mm (0.45") Symbols: "WC, Pa Backlight: Enable/disable/auto |
| OUTPUTS | 3-Wire: 4-20 mA, 0-5 or 0-10 Vdc, field selectable |
| OUTPUT DRIVE | Current: 750Ω max Voltage: 2000Ω min |
| PRESSURE CONNECTIONS | Barbed ports for 1/8" to 3/16 ID tubing |
| WIRING CONNECTIONS | Screw terminal block (14 to 22 AWG) |
| ALARM FUNCTION | Relay Output: N.O. contact, 2 Amps @ 120 Vac or 30 Vdc Relay Trip Point: Upper and lower trip levels adjustable over the pressure range Relay Delay: 0 to 10 minutes (menu selectable) |
| BACNET COMMUNICATION | Communications: 2 wires RS-485, BACnet® MS/TP protocol Baud Rate: Locally set to 9600, 19200, 38400, or 76800 MAC Address Range: Locally set to 0-127 (factory default is 3) |
| OPERATING CONDITIONS | 0 to 50°C (32 to 122°F), 5 to 95 %RH, non-condensing |
| STORAGE TEMPERATURE | -30 to 60°C (-22 to 140°F) |
| ENCLOSURE | B: Grey Polycarbonate UL94-V0, IP65 (NEMA 4X) F: Same as B, with thread adapter (1/2" NPT to M16) and cable gland fitting |
| CONDUIT CONNECTION | Access hole for 1/2" NPT conduit or cable gland |
| APPROVALS | CE, RoHS |



COUNTRY OF ORIGIN

Canada