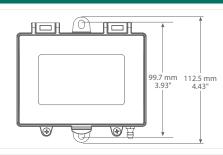
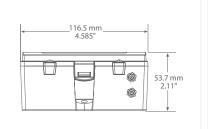


ULTRA LOW PRESSURE TRANSMITTER







UP SERIES

PRODUCT DESCRIPTION

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.

TYPICAL INSTALLATION

For complete installation and wiring details, please refer to the product installation instructions.

The UP mounts on any surface using the two holes provided on the base of the unit. Make sure there is enough space around the unit to connect the pressure tubing without kinking and avoid locations where severe vibrations or excessive moisture are present.

The unit may be mounted in any position but typically is installed on a vertical surface with pressure ports on the bottom and the cable entrance on the bottom. The enclosure has a standard opening for a 1/2" conduit and may be installed with either conduit and a conduit coupler or a cable gland type fitting.

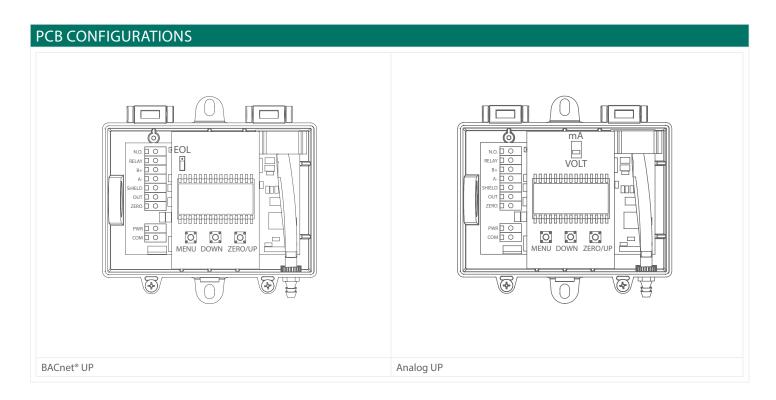
The enclosure provides mounting tabs for ease of installation.



### S. of selected range @ 22°C (72°F) including hysteresis, non-linearity and repeatability #### PRESSURE RANGE #### UPB1B: ±1 °WC or ±250 Pa ### UPB2B: ±0.25° WC or ±60 Pa ### UPB2B: ±0.25° WC or ±60 Pa ### UPB2B: ±1.25°, 10, 25°C, 10, 25°C, ±250, 0-250, ±125, 0-125 Pa ### UPB2B: ±0.25° WC or ±60 Pa ### UPB2B: ±1.25°C, 0-25°C, ±0.125°C, 0-0.125°WC, ±60, 0-60, ±30, 0-30 Pa * ≤1*8 °F.5.0. (1 year) ### THERMAL EFFECTS ### 25% F.5. maximum, 10 to 40°C (50 to 104°F) ### BACnet*: 1 to 60 seconds, menu or BACnet* selectable Analog: 1 to 60 seconds, menu selectable ### PROOF PRESSURE ### UPB1: 100° WC (24,9 kPa) ### UPB2: 40°WC (9.96 kPa) ### UPB2: 80°WC (19.96 k		
PRESSURE RANGE UPB18: ±1 "WC or ±250 Pa UPB28: ±0.25" WC or ±60 Pa UPB1A: ±1, "0.1"; ±0.5; 0.0.5" WC, ±250, 0.250, ±125, 0.125 Pa UPB28: ±0.25" (v.0.5; 0.0.5" WC, ±250, 0.250, ±125, 0.125 Pa UPB28: ±0.25" (v.0.5; 0.0.15" WC, ±250, 0.250, ±125, 0.125 Pa UPB28: ±0.25" (v.0.5; 0.0.15" WC, ±60, 0.60, ±30, 0.30 Pa ***EFFECTS** ***EFFECTS** ***EFFECTS** ***BACnet**: 1 to 60 seconds, menu or BACnet* selectable Analog: 1 to 60 seconds, menu or BACnet* selectable Analog: 1 to 60 seconds, menu selectable **PROOF PRESSURE** **UPB1: 100 "WC (24.9 kPa) UPB2: 40 "WC (19.9 kPa) ***OPERATING CONDITIONS** ***UPB2: 80 "WC (19.9 kPa) ***OPERATING CONDITIONS** ***DEPENSENCE** ***OPERATING CONDITIONS** ***DEPNSENCE** ***DEPNSENCE** ***OPERATING CONDITIONS** ***DEPNSENCE** ***DEPNSENCE** ***OPERATING CONDITIONS** ***DEPNSENCE** **DEPNSENCE** **DEPNSENCE** **DEPNSENCE** **DEPNSENCE** **DEPNSENCE*	SPECIFICATIONS	
PRESSURE RANGE UPB2B: ±0.25 "WC or ±60 Pa UPB1 ± ±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 STABILITY ±1% F.S.O.(1 year) THERMAL EFFECTS ±2% F.S. maximum, 10 to 40°C (50 to 104°F) RESPONSE TIME BACnet*: 1 to 60 seconds, menu or BACnet* selectable Analog: 1 to 60 seconds, menu selectable PROOF PRESSURE UPB1: 100 "WC (24.9 kPa) UPB1: 200 "WC (24.9 kPa) UPB2: 200 "WC (19.9 kPa) UPB2: 200 "WC (19.9 kPa) UPB2: 200 "WC (19.9 kPa) OPERATING CONDITIONS 0 to 50°C (32 to 122°F), 5 to 95 %RH, non-condensing MEDIA COMPATIBILITY Dry air or inert gas ZERO AD JUSTMENTS Pushbutton, digital input auto zero, or via BACnet* POWER SUPPLY 24 Vac/dc ± 10% POWER SUPPLY 24 Var/dc ± 10% POWER CONSUMPTION Analog: 37 mA maximum BACnet*: 52 mA maximum Reverse voltage protected and output limited OUTPUT SIGNAL 3 - Wire: 4-20 mA, 0-5 or 0-10 Vdc, field selectable OUTPUT DRIVE CAPABILITIES Current: 750 Q maximum Voltage: 2,000 Q min 1.5 mm (1.5" x 0.65") Digit Height: 11:43 mm (0.45") 25 mm (0.25")	ACCURACY	
THERMAL EFFECTS ±2% F.S. maximum, 10 to 40°C (50 to 104°F) RESPONSE TIME BACnet*: 1 to 60 seconds, menu or BACnet* selectable Analog: 1 to 60 seconds, menu selectable PROOF PRESSURE UPB2: 40 °WC (9.96 kPa) BURST PRESSURE UPB2: 40 °WC (9.96 kPa) UPB2: 40 °WC (9.96 kPa) UPB2: 80 °WC (19.96 kPa) OPERATING CONDITIONS 0 to 50°C (32 to 122°F), 5 to 95 %RH, non-condensing MEDIA COMPATIBILITY Dry air or inert gas MEDIA COMPATIBILITY Dry air or inert gas POWER SUPPLY 24 Vac/dc ±10% POWER CONSUMPTION BACNE*: 52 mA maximum BACnet*: 52 mA maximum INPUT VOLTAGE EFFECT Negligible over operating range PROTECTION CIRCUITRY Reverse voltage protected and output limited OUTPUT SIGNAL 3-Wire: 4-20 mA, 0-5 or 0-10 Vdc, field selectable Current: 750 \Omega maximum Voltage: 2,000 \Omega min 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 ALARM FUNCTIONS Relay Trip Point Upper and lower alarms adjustable over the pressure range Relay Delay: 0 to 10 minutes, via keypad or BACnet* Communications: 2-Wire RS-485, BACnet* MS/TP protocol Baud Rate: Locally set to 9600, 19200, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 76800 MAC Address Range: Locally set to 9600, 1920, 38400, or 7680	PRESSURE RANGE	UPB2B: ±0.25 "WC or ±60 Pa UPB1A: ±1", 0-1", ±0.5", 0-0.5 "WC, ±250, 0-250, ±125, 0-125 Pa
RESPONSE TIME BACnet*: 1 to 60 seconds, menu or BACnet* selectable Analog: 1 to 60 seconds, menu selectable UPB1: 100 "WC (24.9 kPa) UPB2: 40 "WC (9.96 kPa) BURST PRESSURE UPB1: 200 "WC (49.8 kPa) OPERATING CONDITIONS 0 to 50°C (32 to 122°F), 5 to 95 %RH, non-condensing MEDIA COMPATIBILITY Dry air or inert gas ZERO ADJUSTMENTS Pushbutton, digital input auto zero, or via BACnet* POWER SUPPLY 24 Vac/dc ± 10% POWER CONSUMPTION Analog: 37 mA maximum BACnet*: 52 mA maximum BACnet*: 52 mA maximum INPUT VOLTAGE EFFECT Negligible over operating range PROTECTION CIRCUITRY Reverse voltage protected and output limited OUTPUT SIGNAL 3-Wire: 4-20 mA, 0-5 or 0-10 Vdc, field selectable OUTPUT DRIVE CAPABILITIES Current: 750 Ω maximum Voltage: 2,000 Ω min Size: 38.1 x 16.5 mm (1.5° x 0.65°) Digit Height: 11.43 mm (0.45°) DISPLAY Symbols: Wc, Pa Backlight: Enable/disable/auto ALARM FUNCTIONS Relay Output: NO. contact, 2 Amps @ 120 Vac or 30 Vdc Relay Tip Point: Upper and lower alarms adjustable over the pressure range BACnet* Communications: 2-Wire RS-485, BACnet* MS/TIP protocol <tr< td=""><td>STABILITY</td><td><±1% F.S.O. (1 year)</td></tr<>	STABILITY	<±1% F.S.O. (1 year)
RESPONSE TIME Analog: 1 to 60 seconds, menu selectable PROOF PRESSURE UPB1: 100 °WC (24.9 kPa) BURST PRESSURE UPB1: 200 °WC (49.8 kPa) OPERATING CONDITIONS 0 to 50°C (32 to 122°F), 5 to 95 %RH, non-condensing MEDIA COMPATIBILITY Dry air or inert gas ZERO ADJUSTMENTS Pushbutton, digital input auto zero, or via BACnet* POWER SUPPLY 24 Vac/dc ±10% POWER CONSUMPTION Analog: 37 mA maximum BACnet**: 52 mA maximum BACnet**: 52 mA maximum INPUT VOLTAGE EFFECT Negligible over operating range PROTECTION CIRCUITRY Reverse voltage protected and output limited OUTPUT SIGNAL 3-Wire: 4-20 mA, 0-5 or 0-10 Vdc, field selectable OUTPUT DRIVE CAPABILITIES Current: 750 Ω maximum Voltage: 2,000 Ω min DISPLAY Size: 38.1 x 16.5 mm (1.5° x 0.65°) Digit Height: 11.4 a mm (0.45°) Symbols: "WC, Pa 	THERMAL EFFECTS	
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BURST PRESSURE UPB2: 80 °WC (19.9 kPa) OPERATING CONDITIONS 0 to 50°C (32 to 122°F), 5 to 95 %RH, non-condensing MEDIA COMPATIBILITY Dry air or inert gas ZERO ADJUSTMENTS Pushbutton, digital input auto zero, or via BACnet® POWER SUPPLY 24 Vac/dc±10% Analog: 37 mA maximum BACnet®: 52 mA maximum INPUT VOLTAGE EFFECT Negligible over operating range PROTECTION CIRCUITRY Reverse voltage protected and output limited OUTPUT SIGNAL 3-Wire: 4-20 mA, 0-5 or 0-10 Vdc, field selectable OUTPUT DRIVE CAPABILITIES Current: 750 Ω maximum Voltage: 2,000 Ω min 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 Relay Output: No. contact, 2 Amps @ 120 Vac or 30 Vdc Relay Trip Point: Upper and lower alarms adjustable over the pressure range Relay Delay: 0 to 10 minutes, via keypad or BACnet® BACnet® Communications: 2-Wire RS-485, BACnet® MS/TP protocol Baud Rate: Locally set to 9600, 19200, 38400, or 76800 MAC Address Range: Locally set to 9600, 19200, 38400, or 76800 MAC Address Range: Locally set to 9600, 19200, 38400, or 76800 MAC Address Range: Locally set to 9600, 19200, 38400, or 76800 MAC Address Range: Locally set to 9600, 19200, 38400, or 76800 MAC Address Range: Locally set to 9600, 19200, 38400, or 76800 MAC Address Range: Locally set to 9600, 19200, 38400, or 76800 MAC Addre	PROOF PRESSURE	, ,
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OUTPUT DRIVE CAPABILITIES Current: 750 Ω maximum Voltage: 2,000 Ω min 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 ALARM FUNCTIONS Relay Output: N.O. contact, 2 Amps @ 120 Vac or 30 Vdc Relay Trip Point: Upper and lower alarms adjustable over the pressure range Relay Delay: 0 to 10 minutes, via keypad or BACnet* BACnet* Communications: 2-Wire 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) STORAGE TEMPERATURE -30 to 60°C (-22 to 140°F) WIRING CONNECTIONS Screw terminal block PRESSURE CONNECTIONS 6.35 mm (0.25") Nylon barb fitting for 3.175 mm (0.125") to 4.762 mm (0.1875") ID tubing CONDUIT CONNECTION Access hole for 1/2" NPT conduit or cable gland 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 APPROVALS CE, RoHS	PROTECTION CIRCUITRY	Reverse voltage protected and output limited
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Digit Height: 11.43 mm (0.45") Symbols: "WC, Pa Backlight: Enable/disable/auto Relay Output: N.O. contact, 2 Amps @ 120 Vac or 30 Vdc Relay Trip Point: Upper and lower alarms adjustable over the pressure range Relay Delay: 0 to 10 minutes, via keypad or BACnet® Communications: 2-Wire 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) STORAGE TEMPERATURE -30 to 60°C (-22 to 140°F) WIRING CONNECTIONS Screw terminal block 6.35 mm (0.25") Nylon barb fitting for 3.175 mm (0.125") to 4.762 mm (0.1875") ID tubing CONDUIT CONNECTION Access hole for 1/2" NPT conduit or cable gland 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 APPROVALS CE, ROHS	OUTPUT DRIVE CAPABILITIES	
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WIRING CONNECTIONS Screw terminal block 6.35 mm (0.25") Nylon barb fitting for 3.175 mm (0.125") to 4.762 mm (0.1875") ID tubing CONDUIT CONNECTION Access hole for 1/2" NPT conduit or cable gland 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 APPROVALS CE, ROHS	BACnet®	Baud Rate: Locally set to 9600, 19200, 38400, or 76800
PRESSURE CONNECTIONS 6.35 mm (0.25") Nylon barb fitting for 3.175 mm (0.125") to 4.762 mm (0.1875") ID tubing CONDUIT CONNECTION Access hole for 1/2" NPT conduit or cable gland 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 APPROVALS CE, ROHS	STORAGE TEMPERATURE	-30 to 60°C (-22 to 140°F)
CONDUIT CONNECTION Access hole for 1/2" NPT conduit or cable gland B: Grey Polycarbonate UL94-V0, IP65 (NEMA 4X) F: Same as B, with thread adapter (1/2" NPT to M16) and cable gland fitting APPROVALS CE, ROHS	WIRING CONNECTIONS	Screw terminal block
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 APPROVALS CE, ROHS	PRESSURE CONNECTIONS	
F: Same as B, with thread adapter (1/2" NPT to M16) and cable gland fitting APPROVALS CE, ROHS	CONDUIT CONNECTION	Access hole for 1/2" NPT conduit or cable gland
	ENCLOSURE	
COUNTRY OF ORIGIN Canada	APPROVALS	CE, RoHS
	COUNTRY OF ORIGIN	Canada







ORDERING			PART N	
PRODUCT	UP	Ultra Low Pressure Transmitter		UP
ENCLOSURE	B F	Polycarbonate with hinged and gasketed cover Same as B, with thread adapter & cable gland fitting		
PRESSURE RANGES - SELECTABLE	1 2	Analog: ±1 "WC, ±0.5 "WC, ±250 Pa, ±125 Pa Analog: ±0.25 "WC, ±0.125 "WC, ±60 Pa, ±30 Pa	BACnet®: ±1 "WC or ±250 Pa BACnet®: ±0.25 "WC or ±60 Pa	
OUTPUT	A B	Analog BACnet®		
OPTIONS	X R	No relay Relay		

NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

NOTE: All ranges field selectable, 0-XX or -XX to XX



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