ULTRA LOW PRESSURE TRANSMITTERS ULP Series



Precision low pressure control/sensing

FEATURES:

- Ranges between -0.125" WC and 1" WC (-30 Pa and 250 Pa)
- Analog output or BACnet communications
- 8 switch selectable pressure ranges on analog model
- 2 selectable pressure ranges on BACnet model
- 3 switch selectable current or voltage outputs
- Optional LCD display (Standard on BACnet model)
- Optional alarm relay output (Standard on BACnet model)



Peace of mind through reliable pressure monitoring

DESCRIPTION:

The ULP Series Ultra Low Pressure Transmitter is used to measure differential pressure in the range of -0.125 to 1"WC (-30 to 250 Pa) and is available in two models, analog output or 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 warmup, long term instability and position sensitivity.

It is ideal for monitoring pressure for air or other clean inert gas. It features several field selectable uni- or bi-directional pressure ranges for the most flexible application. The device has an on-board auto-zero function as well as a connection for remote zeroing.

Options include an LCD to display the pressure value and an alarm relay with a variable trip point. The LCD and alarm relay are standard on the BACnet model.

SPECIFICATIONS:

Pressure Ranges	Analog Out	put Model
	ULP(*)1	±1" WC, 0-1" WC, ±0.5" WC, 0-0.5" WC,
		±250 Pa, 0-250 Pa, ±125 Pa, 0-125 Pa
	ULP(*)2	±0.25" WC, 0-0.25" WC, ±0.125" WC, 0-0.125" WC,
		±60 Pa, 0-60 Pa, ±30 Pa, 0-30 Pa
	BACnet Con	nmunications Model

	ULP1BAC	±1" WC or ±250 Pa
	ULP2BAC	±0.25" WC or ±60 Pa
Accuracy	± 1% FS of s	elected range
Stability	+ 1% FS (1 v	ear)

Stubility	± 1/013 (1 year)
Thermal Effect	± 2% FS max , 10 - 40°C (50 - 104°F)

Response Time	Analog Model:	5 or 30 Seco	onds, switch	selectable

	BACnet Model: 1 to 60 Seconds, menu or BACnet selectable
Proof Pressure	100 "WC (24.9 kPa) for ULP1, 40 "WC (9.96 kPa) for ULP2
Burst Pressure	200 "WC (49.8 kPa) for ULP1, 80 "WC (19.9 kPa) for ULP2
Operating Conditions	0 - 60°C (32 - 140°F), 0 - 90 %RH non-condensing

operating conditions	0 00 C (32 1701), 0
Storage Temperature	-40 - 95°C (-40 - 203°F)
Media Compatibility	Dry air or inert gas

Zero Adjust	Analog Model: Pushbutton or digital input auto-zero)

BACnet Model: Pushbutton or via BACnet

BACnet Model: 50 mA max.

ANALOG OUTPUT

BACnet COMMUNICATIONS

LCD DISPLAY (Standard on BACnet Model)

Symbols "WC, Pa

Backlight Enable/disable (switch selectable)

ALARM FUNCTIONS (Standard on BACnet Model)

Alarm Relay Output N.O. contact, 2 Amps @ 120 Vac or 30 Vdc

Alarm Relay Delay Analog Model: 10 or 60 Seconds, switch selectable

BACnet Model: 0 to 10 Minutes, menu or BACnet selectable

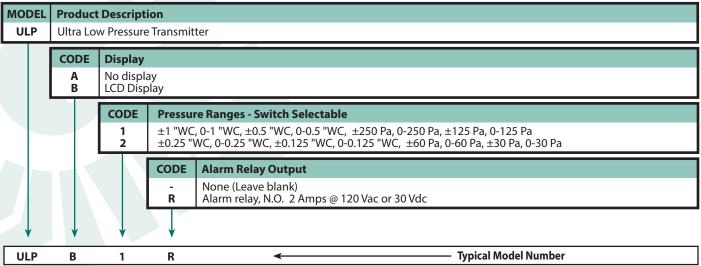








ANALOG PRODUCT ORDERING INFORMATION:



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

BACnet PRODUCT ORDERING INFORMATION:

MODEL ULP		Descript v Pressure	ion e Transmitter
	CODE	Pressur	re Ranges - Selectable
	1 2		or ±250 Pa NC or ±60 Pa
		CODE	Communications
		BAC BAC	BACnet Communications

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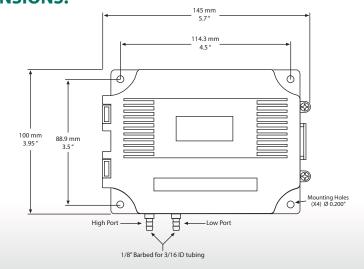
BACnet® COMMUNICATION

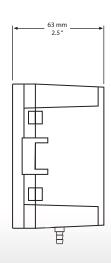


BACnet® is a data communication protocol for building automation and control networks. The detector communicates on a standard 2-wire RS-485 MS/TP (master-slave/token-passing) network designed to run at speeds from 9600 to 76800 baud over twisted pair wiring.

BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BI.

DIMENSIONS:













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ACCESSORIES:







RPV Stainless Steel Pick-up Port

The RPV is a stainless steel wall plate that incorporates a filtered port with a 1/8" barb connection for pneumatic tubing. It can be mounted on a standard junction box or directly to a wall or ceiling and used in conjunction with a low pressure transmitter to monitor room pressure.

CPV Continental ABS Pick-up Port

The CPV is a low profile, decorative ABS enclosure that incorporates a port with a 3/16″ barb fitting for connection of 0.17″ ID pneumatic tubing. It can be mounted on a standard junction box or directly to a wall and used in conjunction with a low pressure transmitter to monitor room pressure.

OPV Outside Pick-up Port

The OPV, is a weatherproof ABS enclosure with wind shield that incorporates a port with a 3/16" barb fitting for connection of 0.17" ID pneumatic tubing. It can be mounted on the side of a building and used in conjunction with a low pressure transmitter to monitor building pressure.



FPP & SPP Series Pitot Tube

The FPP and SPP series are used to sense velocity pressure or static pressure respectively. Constructed of 304 stainless steel probes with an ABS mounting bracket, they available in 150 mm (6") or 300 mm (12") lengths. Kits are available for differential and static that are complete with pneumatic tubing.



DPFS Series Differential Pressure Probe

The DPFS series Averaging Flow Sensor is ideal for sensing differential pressure in the inlet section of variable air volume terminal units and fan terminal units. Units can also be used to sense differential pressure at other locations in the main or branch duct systems. They are made of ABS/polycarbonate (UL94-5V) and available in lengths from 100 mm (4") to 560 mm (22")



MP Series Differential Pressure Probes

The MP series Air Velocity Pitot Tubes are used in conjunction with a DP transmitter to calculate airflow in larger ducts or in areas of turbulent airflow. The units come in pairs in either ABS or 316 S/S and are available in various lengths from 610 mm (24") to 2000 mm (80"). Gasketed mounting collars for both probes are included.



GREYSTONE

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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems.

We have conscientiously established a worldwide reputation as an industry leader by maintaining leadingedge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.