

ULTRA LOW PRESSURE TRANSMITTER - BACnet **ULP Series**

The Ultra Low Pressure Transducer is used to measure differential pressure up to 1"wc or 250 Pa and transmit via 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 bi-directional pressure measurement, an on-board auto-zero function, a backlit 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.

SPECIFICATION:

Pressure RangesULP1BAC - ±1" WC or ±250 Pa	
ULP2BAC - ±0.25" WC or ±60 Pa	3
Accuracy± 1% FS of selected range	
Stability ± 1% FS (1 year)	
Thermal Effect ± 2% FS max ,	
10 - 40°C (50 - 104°F)	
Response Time 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	
80 "WC (19.9 kPa) for ULP2	
Operating Conditions 0 - 60°C (32 - 140°F),	
0 - 90 %RH non-condensing	
Storage Temperature40 - 95°C (-40 - 203°F)	
Media Compatibility Dry air or inert gas	
Zero Adjust Pushbutton or via BACnet	
Power Supply 24 Vac/dc ± 10%	
Power Consumption 50 mA max.	
Input Voltage Effect Negligible over specified	
operating range	
Protection Circuitry Reverse voltage protected and	
output limited	
Wiring Connections Screw terminal block	
(14 to 22 AWG)	
Pressure Connections Barbed ports for 1/8" to 3/16" I	D
tubing	
Conduit Connection Access hole for 1/2" NPT condu	iit
or cable gland	
Enclosure Grey ABS with gasket, UL94-5V	B
IP65 (NEMA 4X)	_
145 W x 101 H x 63 D mm	
(5.7" x 4.0" x 2.5")	
Weight	
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RACnet COMMUNICATIONS

DACHEL COMMONICATIONS				
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)			



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

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ı	МО	DEL	Product Description			
ı	ULP Ultra Low Pressure Transmitter			Pressure Tra	ansmitter	
			CODE	Pressure	Ranges	
			1 2	±1" WC or ±250 Pa ±0.25" WC or ±60 Pa		
				CODE	Communications	
				BAC	BACnet Communications	
	•	7	*	•		

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

LCD DISPLAY

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 (switch selectable)

ALARM FUNCTIONS	
Alarm Relay Output	N.O. contact, 2 Amps @ 120 Vac
	or 30 Vdc
Alarm Relay Trip Point	Upper and Lower alarms adjustable
	over the pressure range
Alarm Relay Delay	0 to 10 Minutes, menu or BACnet
	selectable







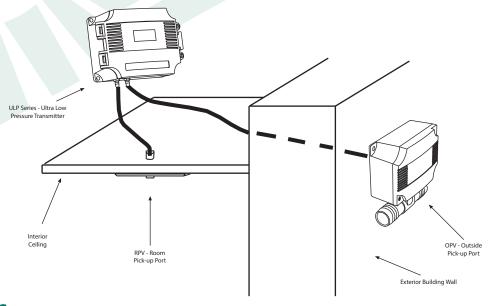


TYPICAL INSTALLATION:

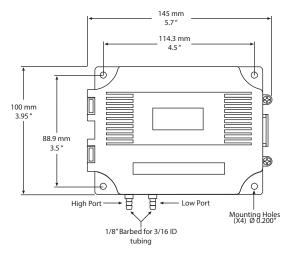
For complete installation and wiring details, please refer to the product installation instructions.

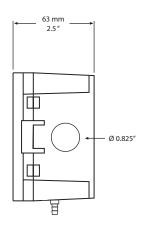
The ULP mounts on any surface using the four holes provided on the base of the unit. Make sure there is enough space around the unit to connect the pressure tubing without kinking and avoid locations where severe vibrations or excessive moisture are present.

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 right. 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.



DIMENSIONS:





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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC 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.