GREYSTONE ENERGY SYSTEMS INC

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:

SFECIFICATION.	
Pressure Ranges	. ULP1BAC - ±1" WC or ±250 Pa
	ULP2BAC - ±0.25" WC or ±60 Pa
Accuracy	. ± 1% FS of selected range
Stability	. ± 1% FS (1 year)
Thermal Effect	$\pm 2\%$ 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,
Burst Pressure	40 "WC (9.96 kPa) for ULP2 . 200 "WC (49.8 kPa) for ULP1,
	80 "WC (19.9 kPa) for ULP2
Operating Conditions	
	0 - 90 %RH non-condensing
Storage Temperature	
Media Compatibility	
	. Pushbutton or via BACnet
Power Supply	
Power Consumption	
	Negligible over specified
	operating range
Protection Circuitry	. Reverse voltage protected and
·····	output limited
Wiring Connections	Screw terminal block
	(14 to 22 AWG)
	. Barbed ports for 1/8" to 3/16" ID
	tubing
Conduit Connection	. Access hole for 1/2" NPT conduit
	or cable gland
Enclosure	Grey ABS with gasket, UL94-5VB
	1R65 (NEMA 4X)
	145 W x 101 H x 63 D mm
	(5.7" x 4.0" x 2.5")
Weight	
BACnet COMMUNICAT	
Communications	. 2-wire RS-485, BACnet MS/TP
	protocol
	Locally set to 9600, 19200, 38400
שמעט המוכ	or 76800
MAC Address Range	1 ocally set to 0.127
	(factory default is 2)

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description			
ULP	Ultra Low	w Pressure Transmitter		
	CODE	Pressure Ranges		
	1 2	±1″ WC or ±250 Pa ±0.25″ WC or ±60 Pa		
		CODE	Communications	
		BAC	BACnet Communications	
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Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

LCD DISPLAY

Display Size
BacklightEnable/disable (switch selectable)
ALARM FUNCTIONS
Alarm Relay OutputN.O. contact, 2 Amps @ 120 Vac or 30 Vdc
Alarm Relay Trip PointUpper and Lower alarms adjustable over the pressure range
Alarm Relay Delay0 to 10 Minutes, menu or BACnet selectable



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(factory default is 3)

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.



GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM