



GREYSTONE

ENERGY SYSTEMS INC

ULTRA LOW PRESSURE TRANSMITTER ULP Series

The ULP series is used to measure differential pressure between an area and a reference space. It combines precision high sensitivity silicon sensing capabilities and the latest in ASIC technology with Dynamic Self Compensation. Standard features include: Bi-directional pressure ranges, selectable output, and on-board auto-zeroing. A built-in alarm relay output and LCD are optional. Several accessories are available.

SPECIFICATION:

Pressure Ranges(1) ± 1 ", 0-1", ± 0.5 ", 0-0.5" WC,
 ± 250 , 0-250, ± 125 , 0-125 Pa
(2) ± 0.25 ", 0-0.25", ± 0.125 ", 0-0.125" WC
 ± 60 , 0-60, ± 30 , 0-30 Pa

Accuracy $\pm 1\%$ FS of selected range
Stability $\pm 1\%$ FS (1 year)
Thermal Effect $\pm 2\%$ FS max,
10 - 40°C (50 - 104°F)

Response Time5 or 30 Seconds,
(switch selectable)

Proof Pressure100 "WC (24.9 kPa) for ULP1,
40 "WC (9.96 kPa) for ULP1

Burst Pressure200 "WC (49.8 kPa) for ULP1,
80 "WC (19.9 kPa) for ULP2

Operating Conditions0 - 60°C (32 - 140°F),
0 - 90 %RH non-condensing

Storage Temperature-40 - 95°C (-40 - 203°F)

Media CompatibilityDry air or inert gas

Zero AdjustPushbutton or digital input
auto-zero

Power Supply24 Vac/dc $\pm 10\%$

Power Consumption55 mA max. with relay option

Input Voltage EffectNegligible over specified
operating range

Protection CircuitryReverse voltage protected and
output limited

Output Signal4-20 mA (3-wire), 0-5 or 0-10 Vdc
(3-wire), field selectable

Output Drive750 Ω max (4-20 mA),
2 K Ω min (voltage)

Wiring ConnectionsScrew terminal block
(14 to 22 AWG)

Pressure ConnectionsBarbed ports for 1/8" to 3/16" ID
tubing

Conduit ConnectionAccess hole for 1/2" NPT conduit
or cable gland

EnclosureGrey ABS with gasket, UL94-5VB
IP65 (NEMA 4X)
145 W x 101 H x 63 D mm
(5.7" x 4.0" x 2.5")

Weight260 g (9.2 oz)



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
ULP	Ultra Low Pressure Transmitter

CODE	Options
A	Standard
B	LCD Display

CODE	Pressure Ranges
1	± 1 , 0-1, ± 0.5 , 0-0.5"WC / ± 250 , 0-250, ± 125 , 0-125 Pa
2	± 0.25 , 0-0.25, ± 0.125 , 0-0.125"WC / ± 60 , 0-60, ± 30 , 0-30 Pa

CODE	Alarm Output
R	Alarm relay, N.O. 2 Amp

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

OPTIONAL LCD DISPLAY

Display Size38.1 x 16.5 mm (1.5" x 0.65")
Digit Height11.43 mm (0.45")
Symbols " WC, Pa
BacklightEnable/disable (switch selectable)

OPTIONAL ALARM FUNCTIONS

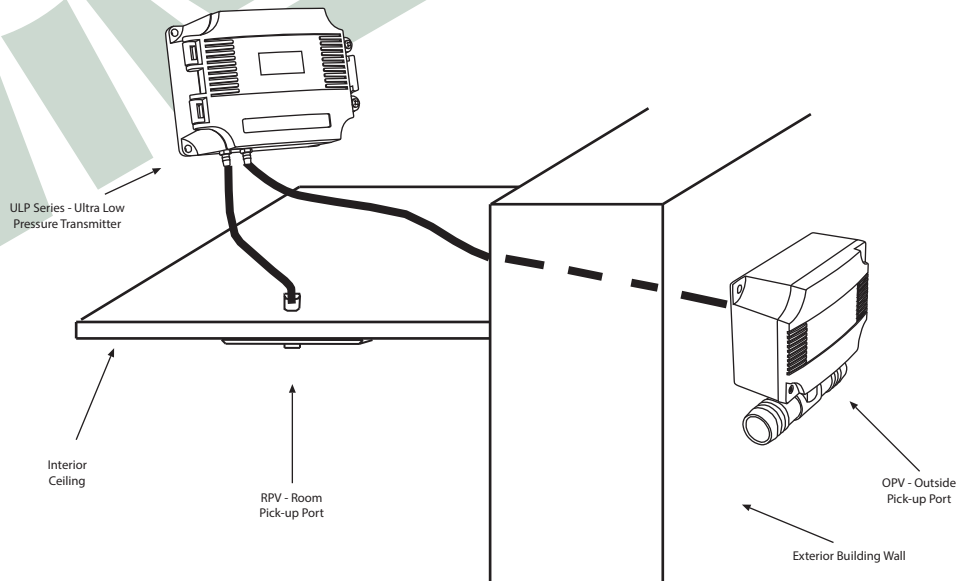
Alarm Relay OutputN.O. contact, 2 Amps @ 120 Vac
or 30 Vdc
Alarm Relay Trip PointAdjustable over the pressure
range (forward or reverse acting)
Alarm Relay Delay10 or 60 Seconds, switch selectable

TYPICAL INSTALLATION:

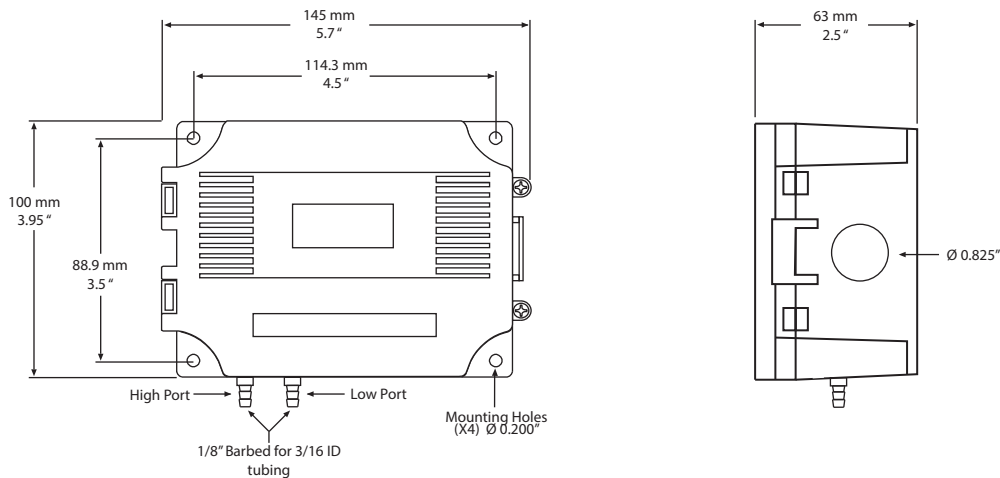
For complete installation and wiring details, please refer to the product installation instructions.

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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RoHS
COMPLIANT



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 leading-edge 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.

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM