# GREYSTONE
## ENERGY SYSTEMS INC

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 ............................± 1% FS of selected range
Stability...............................± 1% FS (1 year)
Thermal Effect .................± 2% FS max ,
10 - 40°C (50 - 104°F)
Response Time ................5 or 30 Seconds,
(switch selectable)
Proof Pressure..................100 "WC (24.9 kPa) for ULP1,
40 "WC (9.96 kPa) for ULP1
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
Storage Temperature ....-40 - 95°C (-40 - 203°F)
Media Compatibility .....Dry air or inert gas
Zero Adjust ........................Pushbutton or digital input
auto-zero
Power Supply....................24 Vac/dc ± 10%
Power Consumption .....55 mA max. with relay option
Input Voltage Effect.......Negligible over specified
operating range
Protection Circuitry.........Reverse voltage protected and
output limited
Output Signal ..................4-20 mA (3-wire), 0-5 or 0-10 Vdc
(3-wire), field selectable
Output Drive ....................750 Ω max (4-20 mA),
2 KΩ min (voltage)
Wiring Connections.......Screw terminal block
(14 to 22 AWG)
Pressure Connections...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
IP65 (NEMA 4X)
145 W x 101 H x 63 D mm
(5.7" x 4.0" x 2.5")
Weight ...............................260 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" W.C./±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 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)
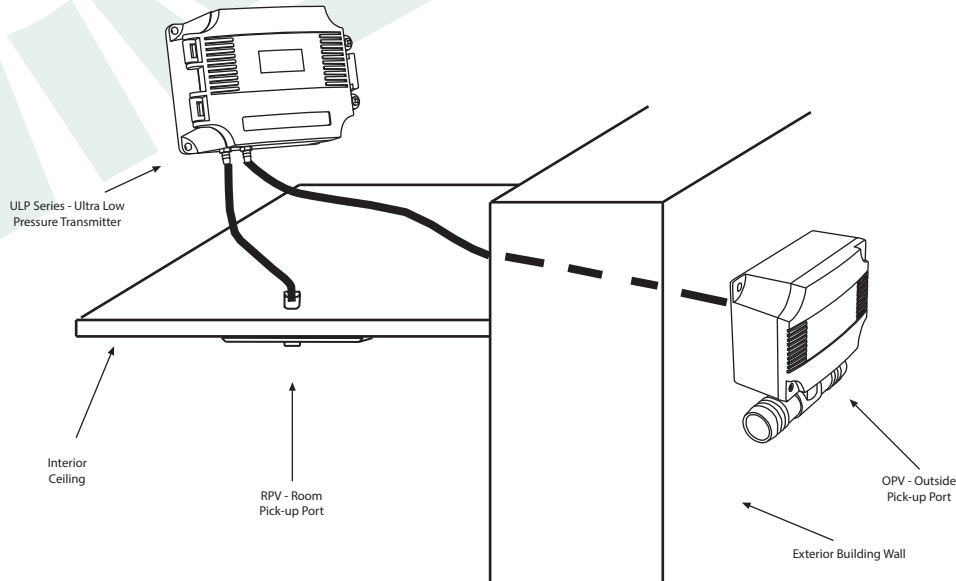
### OPTIONAL ALARM FUNCTIONS
Alarm Relay Output.............N.O. contact, 2 Amps @ 120 Vac
or 30 Vdc
Alarm Relay Trip Point.........Adjustable over the pressure
range (forward or reverse acting)
Alarm Relay Delay ..............10 or 60 Seconds, switch selectable

**RoHS** COMPLIANT

ISO9001
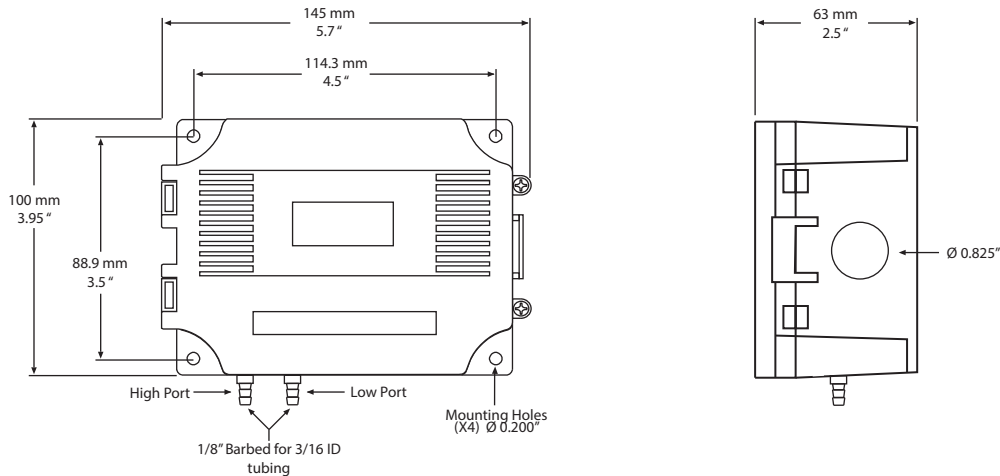
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## TYPICAL INSTALLATION:

**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.

ULP Series - Ultra Low
Pressure Transmitter

Interior
Ceiling

RPV - Room
Pick-up Port

OPV - Outside
Pick-up Port

Exterior Building Wall

## DIMENSIONS:

145 mm
5.7 "

114.3 mm
4.5 "

100 mm
3.95 "

88.9 mm
3.5 "

High Port

Low Port

1/8" Barbed for 3/16 ID
tubing

Mounting Holes
(X4) Ø 0.200"

63 mm
2.5 "

Ø 0.825"

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**RoHS**
COMPLIANT

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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 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