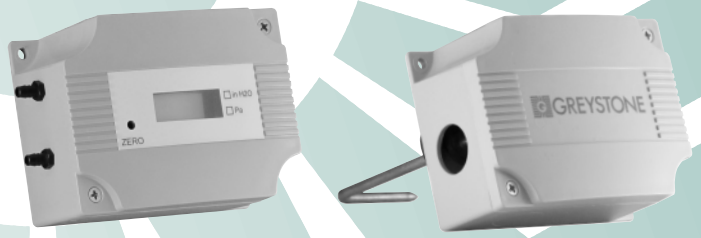
GREYSTONE
ENERGY SYSTEMS INC

LOW PRESSURE TRANSMITTER
LP3 Series

The LP3 series is used to measure positive, negative or differential pressure. The piezoresistive sensor is ideal for monitoring the pressure of air or other clean inert gas. Typical HVAC applications include monitoring of filter differential pressure or VAV applications. An integrated static pressure probe provides ease of installation for duct mounting. Several accessories are available.



SPECIFICATION:

Accuracy	±1% F.S.O.
Measurement Type	Differential (two port), Static, Velocity, & Total Pressure
Response Time	250 ms
Stability	< ±1% F.S.O. per year
Thermal Effects	< ±3% over compensated range
Compensated Range	0 - 50˚ C (32 - 122˚F)
Proof Pressure	40" W.C. (100" for 10" & 20" Models)
Burst Pressure	60" W.C. (200" for 10" & 20" Models)
Operating Conditions	0 - 70˚C (32 - 158˚F), 10 - 90 %RH, non-condensing
Power Supply	20 - 28 Vac/dc (non-isolated half-wave rectified)
Supply Current	< 4 mA
Input Voltage Effect	Negligible over operating range
Protection Circuitry	Reverse voltage protected and output limited
Output Signal	4-20 mA (2-wire), 0-5 or 0-10 Vdc (3-wire), switch selectable
Output Drive Capabilities	Current: 400 ohms max @ 24 vdc Voltage: 10K ohms min
Zero Adjustments	Pushbutton auto-zero
Wiring Connections	Screw terminal block (14 to 22 AWG)
Pressure Connection	Barbed ports for 5 mm (0.170" ID) flexible tubing
Conduit Connection	½" NPT conduit or cable gland
Optional Display	3½ digit LCD, 0.4" digit height
Enclosures	ABS, plenum rated
Weight	159 grams (5.6 oz)

TYPICAL INSTALLATION:

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

The LP3 mounts on any surface using the two 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 right and the cable entrance on the left. If the unit has the integrated static pressure probe, drill a hole in the duct and insert so the probe point is facing into the airflow. 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.

PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

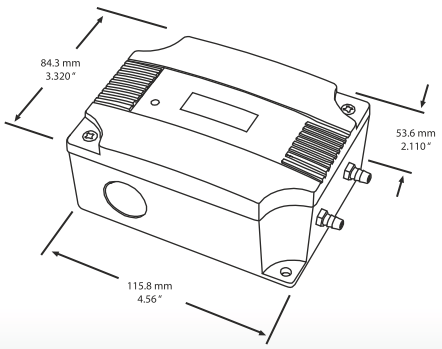
MODEL	Product Description
LP3	Low Pressure Transmitter

CODE	Options
A	Standard
B	LCD Display

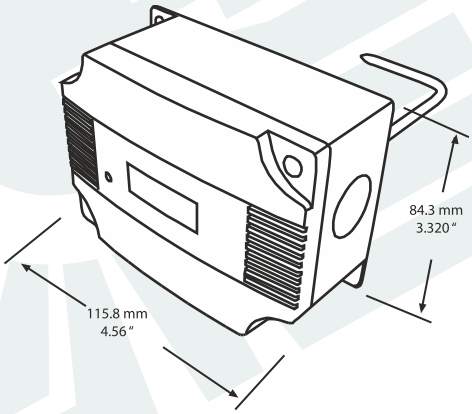
CODE	Range
00	±1", ±2", ±4", 0-1", 0-2", 0-4"W.C.
01	±3", ±5", ±8", 0-3", 0-5", 0-8"W.C.
02	±6", ±10", ±12", 0-6", 0-10", 0-12"W.C.
03	±10", ±15", ±20", 0-10", 0-15", 0-20"W.C.
04	±250, ±500, ±1000, 0-250, 0-500, 0-1000 Pa
05	±500, ±1000, ±2000, 0-500, 0-1000, 0-2000 Pa

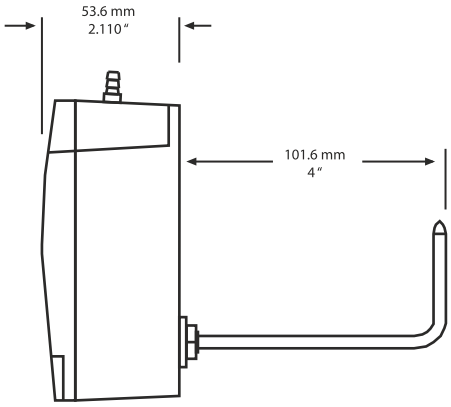
CODE	Options
S	Integrated Static Pressure Probe

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



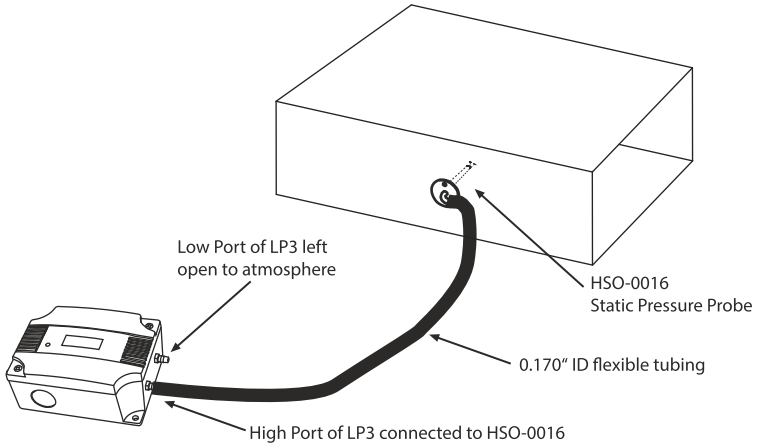
DIMENSIONS



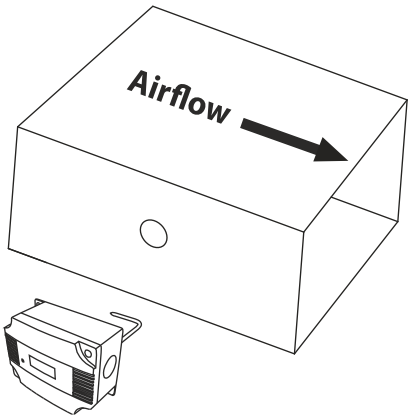


TYPICAL INSTALLATION:

Duct Static Pressure

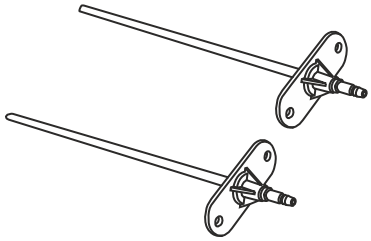


Duct Airflow Velocity



ACCESSORIES:

FPP & SPP - Pitot Tubes



SSS - Differential Pressure Probe