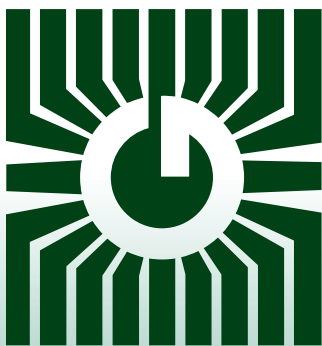


GREYSTONE ENERGY SYSTEMS INC



LOW PRESSURE TRANSDUCERS LP3 Series



Precision low pressure control/sensing

FEATURES:

- Jumper selectable 2 wire current and 3 wire voltage outputs
- 24 Vac/dc power supply
- Six variable jumper selectable pressure ranges, W.C. & Pa.
- Functional weather resistant ABS Enclosure
- Available options include LCD display and integrated static probe

*Peace of mind
through reliable
pressure transducers*

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

APPLICATIONS:

- HVAC/VAV
- Process Control
- Air Flow Monitoring
- Drop Across Air Filters
- Hydraulic Pressures
- Pneumatic Pressures

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 12" and 20" models)
Burst Pressure:.....	60" W.C. (200" for 12" and 20" models)
Operating Conditions:.....	0 - 70°C (32 - 158°F), 10 - 90 %RH, non-condensing
Media Compatibility:.....	Non-corrosive, non-ionic fluids such as clean dry air or inert gases
Power Supply:.....	20 - 28 Vac/dc (non-isolated half-wave rectified)
Supply Current:.....	< 4 mA
Input Voltage Effect:.....	Negligible over specified operating range
Protection Circuitry:.....	Reverse voltage protected and out 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 0.170" ID flexible tubing
Conduit Connection:.....	Access hole for ½" NPT conduit or cable gland
Optional Display:.....	3½ digit LCD, 0.4" digit height
Enclosures:.....	High Impact Black ABS, plenum rated with optional gasket 5.00" W x 3.3" H x 2.1" D (127mm x 84mm x 53mm)
Weight:.....	159 grams (5.6 oz)



LP3 c/w LCD



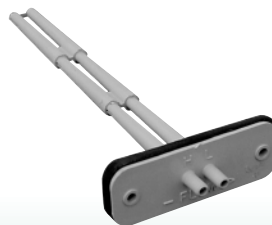
LP3 c/w integrated static probe

OPTIONS:



Pitot Tube HFO & HSO Series

The HFO and HSO series are used to sense velocity pressure or static pressure respectively. Available in 152 mm (6") length. Kits are available for differential and static that are complete with pneumatic tubing.



Differential Pressure Probe SSS Series

The SSS series DP probe is used for sensing velocity pressure in the duct. Available in 102 mm, 152 mm, 203 mm & 254 mm (4", 6", 8" & 10") lengths. Kits are available that come complete with pneumatic tubing.

DESCRIPTION:

The LP3 Low Pressure Transducer can be used to measure positive, negative or differential pressure in the ranges of 1"W.C. to 20"W.C. (250 TO 2000Pa). The piezoresistive sensor is ideal for monitoring the pressure for air or other clean inert gas and is limited only to those media which will not attack polyetherimide, silicon, fluorosilicone, silicone, EPDM and neoprene seals.

The LP3 features field selectable pressure ranges and output signal types for the most flexible applications. Typical HVAC applications include monitoring of filter differential pressure or VAV applications. The output signal is factory calibrated and temperature compensated for highest startup accuracy and trouble-free operation. Available options include LCDs and integrated static pressure probe.

Please read the installation instructions carefully before installing and commissioning the pressure transducer. Failure to follow the instructions may result in product damage. A qualified technician must install this device.

The LP3 Pressure Transducer 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. Mount the enclosure with two user-supplied screws but do not over-tighten.

The unit may be mounted in any position but typically is installed on a vertical surface with the pressure ports on the right and the cable entrance on the left. 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. Do not use in an explosive or hazardous environment, with combustible or flammable gasses, as safety or emergency stop devices or in any other application where failure of the product could result in personal injury. Take electrostatic discharge precautions during installation and do not exceed the device ratings.

PRODUCT ORDERING INFORMATION

MODEL	Description
LP3	Jumper Selectable Low Pressure Transducer

CODE	Options
A	Standard
B	LCD Display

CODE	Pressure Ranges
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

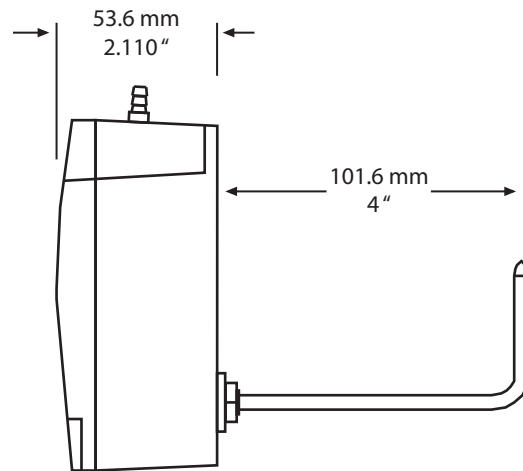
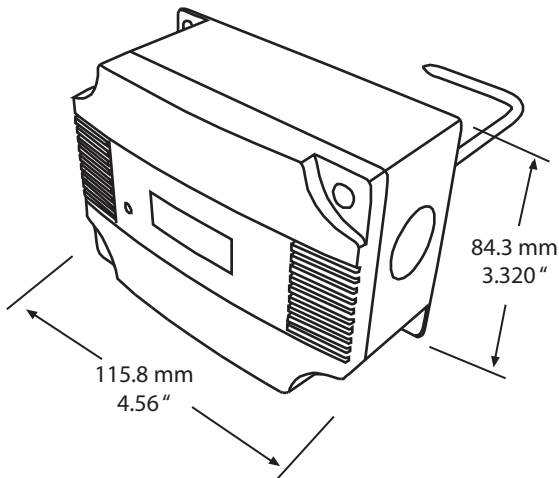
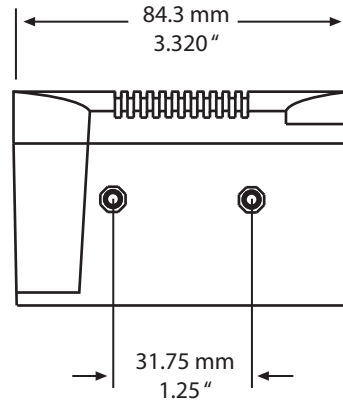
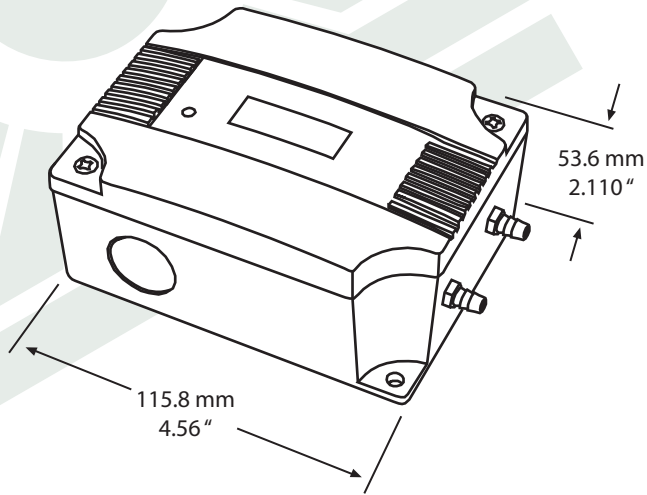
LP3	B	00	S	← Typical Model Number
-----	---	----	---	------------------------

Example: LCD, ±1" to 0-4" W.C., Static Pressure Probe
--

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

Note: 1" W.C. = 249.0Pa @ 40 F
1 bar = 10⁵ Pa

DIMENSIONS:



GREYSTONE

ENERGY SYSTEMS INC

Greystone Energy Systems Inc.
150 English Drive, Moncton, NB
Canada E1E 4G7

(506) 853-3057 Fax: (506) 853-6014
North America: 1-800-561-5611
e-mail: mail@greystoneenergy.com
web site: www.greystoneenergy.com

RoHS
COMPLIANT



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