

Product Data

I-LP Series Low Differential Pressure Transmitter

Product Description

The I-LP Series transmitters are a low cost alternative to the I-DP series pressure transmitters. The I-LP Series is a 4-20 mA transmitter with uni-directional spans.

These pressure transmitters incorporate a durable piezoresistive, silicon micro-machined sensing element to enable very low-pressure measurements. Integrated temperature compensation with offset and span calibration extends the performance of these devices to provide excellent long term reliability.

The transmitters must be powered by a +24 to 36 VDC or 24VAC supply. The electronics provide a two-wire, linear 4-20 mA current loop or an optional 3-wire voltage output. The uni-directional spans range from 0-1" to 0-10" of Water Column or 0-300 to 0-2500 Pascals. All units are calibrated with a 4-20 mA output as standard. If a voltage output as required, they must be ordered as such from the factory. The I-LP is now available with a Cord Grip and 1/2" NPT Knockout when ordering the "Euro" Enclosure option.


All I-LP Series Transmitters come with a limited 2-year warranty. Please contact INTEC Wilson Mohr for more information regarding this product.

Product Specifications

Supply Voltage	+24 to 36 VDC / 24 VAC (+/-10%)
Supply Current	23 mA minimum
Output	2-wire, Linear 4 to 20mA DC Current or 3-wire, 1-5 or 2-10 VDC
Sensor Accuracy*	+/-1.1% F.S.O.
Repeatability	+/- 0.3% F.S.O. nominal
Operating Temperature Range	-13 to 185°F (-25 to 85°C)
Compensated Temperature Range	32 to 122°F (0 to 50°C)
Full Scale Shift (0°C to 50°C)	+/-2.0% F.S.O.
Media	Dry air or inert non-conductive gases
Environmental Compliance	RoHS-Directive 2002/95/EC WEEE-Directive 2002/96/EC

* Accuracy includes linearity, hysteresis and repeatability

Air Pressure



Attributes:

- Optional Internal or External Terminal blocks
- 1/2" NPT Knockout (When Cord Grip Removed)
- Euro Housing Option w/ Cord Grip
- UL 94-V0 Rated Enclosure
- RoH'S Compliant

Applications:

- Monitoring Building Static Pressure
- Leak Detection
- Monitoring Filter Blockage
- Measuring flow when used in conjunction with a Pitot Tube or Orifice Plate

Dimensions

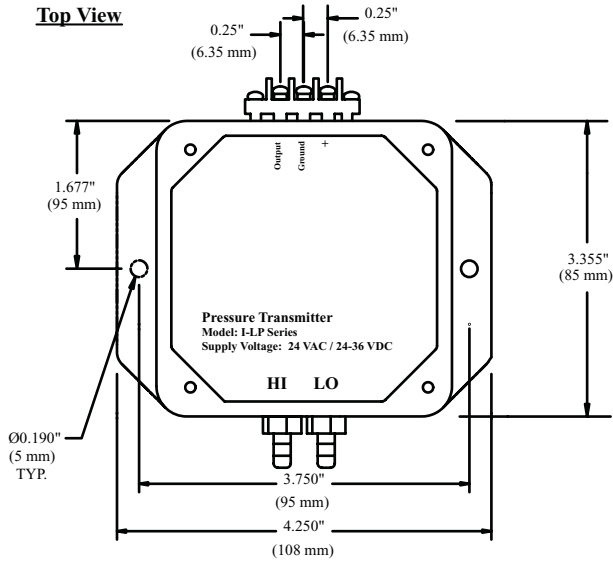
All Dimensions are in Inches

Terminals Exposed Version

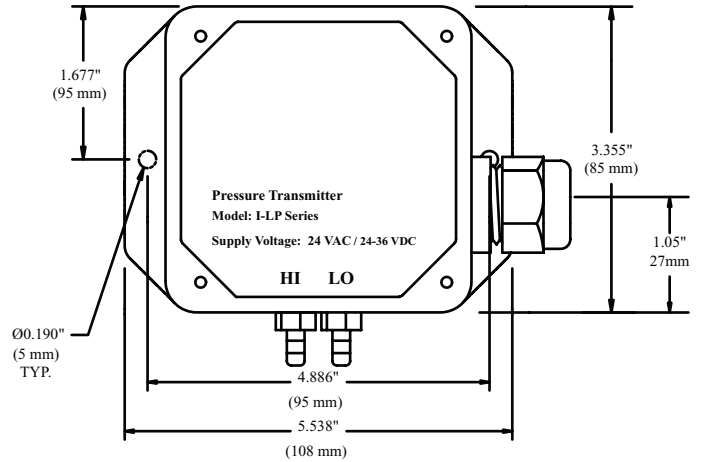
Terminals Enclosed Version

*Add (E) Euro to your ordering information

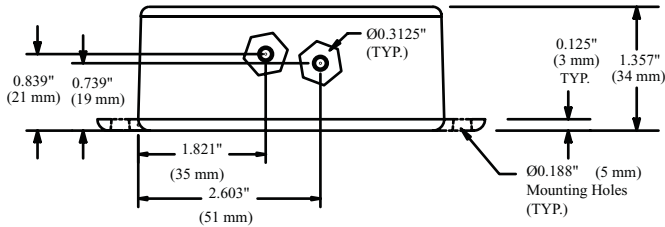
Top View



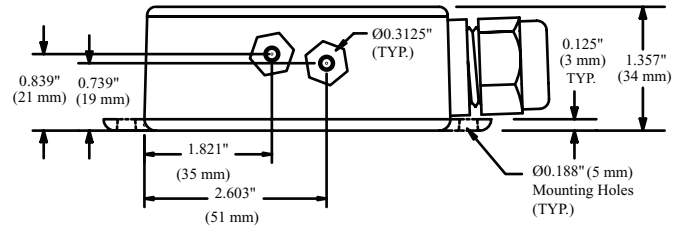
Top View



Front View



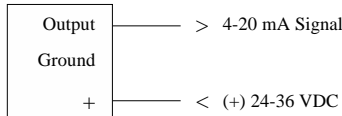
Front View



WIRING CONFIGURATION

I-LP-_-20

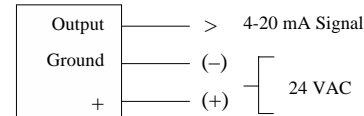
24 VDC, 4-20 mA Signal, 2-wire Configuration



* Connect power supply ground and controller ground if necessary

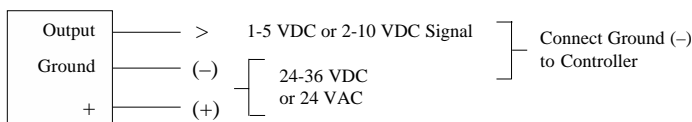
I-LP-_-20

24 VAC, 4-20 mA Signal, 3-wire Configuration



I-LP-_-5(10)

24 VAC or VDC, VDC Signal, 3-wire Configuration



Installation and Calibration

The pressure transducer is factory calibrated and should be installed vertically with the brass fittings pointing downward and the arrow on the label should be pointing up. If the unit must be installed flat there may be a zero shift. The shift can be corrected with a zero pot adjustment located inside the enclosure. To adjust the zero, both pressure ports must be open to the atmosphere. For an unidirectional span the current should be 4 mA, turn the zero adjustment until this reading is achieved.

The connection tubing, to the two 1/4" barbed brass fittings, is recommended to be 1/4" push-on. To achieve the shortest response time, larger diameter tubing should be used on long tubing runs.

Ordering Information

	Span	Output	*Scale	(See Above) *Enclosure
I-LP	-[]	-[]	-[]	-[]
	(1) 0 to 1.0"	(5) 1 to 5 VDC	() " H ₂ O (Standard)	(E) Euro
	(2) 0 to 2.0"	(10) 2 to 10 VDC	(P) Pascals	
	(3) 0 to 3.0" or 0 to 300 pa	(20) 4 to 20 mA		
	(4) 0 to 4.0"			
	(5) 0 to 5.0" or 0 to 500 pa			
	(10) 0 to 10.0" or 0 to 1000 pa			
	(16) 0 to 1600 pa			
	(25) 0 to 2500 pa			
	(Please Specify)			

Example: I-LP-1-20 or I-LP-3-20-E or I-LP-16-5-P