

SMART PRESSURE TRANSMITTER

ABSOLUTE PRESSURE

GENERAL

IPS-PT-14 is a digital Absolute Pressure Transmitter designed for industrial

pressure measurement applications.

The IPS-PT-14 offer configurations for gauge pressure, absolute pressure and vacuum including integrated solutions for industrial applications.

FEATURES

- Updating time of output current in 90 ms
- Improved performance, increased accuracy and greater stability
- Two years stability of 0.15%
- 0.1% accuracy
- Parameter setting by keypad directly
- 4-20 mA output plus direct digital HART communication
- Automatic Zero calibration by press button
- Explosion proof and weather proof housing

STANDARD SPECIFICATIONS

Process Fluid	: Liquid, Gas or Vapor
Application	: Absolute Pressure, Gauge Pressure, Vacuum
Measuring Range	: 0 - 10 Kpa ~ 0 - 30 Kpa (Minimum) : 0 - 32 Mpa ~ 0 - 70 Mpa (Maximum)
Turndown Ratio	: 100 : 1
Accuracy	: +/- 0.1% of span
Stability	: +/-0.15% of URL for 2 years
Working Temperature	: -25 to +95 °C
Max. Pressure	: 70 Mpa
Material	
Connection	: SUS 304 / SUS 316
Diaphragm	: SUS 316L / Tantalum
Housing	: Low copper cast aluminum alloy with polyurethane, light blue paint
Name / Tag Plate	: Stainless Steel 304 / Stainless Steel 316
Cable Entry	: M20 Conduit Threads / 1/2" NPT (Female)
Process Connection	: 1/2" NPT, 1/2" BSP
Temperature Effect	: +/-0.18% ~ +/-0.5% of span per 20 °C
Over Pressure Limit	: 120% of Full Scale
Vibration Effect	: +/-0.05% of URL per g to 200 Hz in any axis
EMI/RFI Effect	: Follow SAMA PMC 33.1 from 20 to 1000 MHz and for field strengths up to 30 V/m

Display	: 5 Digits programmable & 0-100% Bargraph
Display Unit	: Standard 22 different engineering unit
	: 5 Digits programmable for special unit
Keypad	: 3 internal keys for Programming and output setting
Current Output	: 4 - 20 mA 2 wires with Hart Signal (Compatible)
	Load : $R_{ohm} = (V_{dc} - 9) * 50$
Power Supply	: 9 ~ 36 VDC
Digital Communication	: Hart Protocol
Damping	: 0 - 32 seconds
Response Time	: 100 ms
Mounting	: Direct installation or bracket on 2" Pipe
Humidity Limit	: 0 to 100% Relative Humidity
Turn on Time	: 2 Seconds with minimum damping
Zero Calibration	: Automatic zero calibration by push-button
Ambient Temperature	: -25 to +85 °C
Dimensions	: 102 mm (W) * 160 mm (H) * 130 mm (D)
Weight	: 1.3 Kg
Protection Class	: IP67 (Standard)
	: Intrinsically Safe EEx ia IIC T5 (Standard)
	: Explosion proof Ex D IIB T5



IPS-PT-14



Industrix Precise Solutions Private Limited

Room No – 303, Bhumika Residency, Plot No-21, Sector-20, Roadpali, Kalamboli, Panvel (Tal.), Raigad (Dist.), Maharashtra, India – 410218.

Mobile: +91 99309 98399 / +91 99674 97447

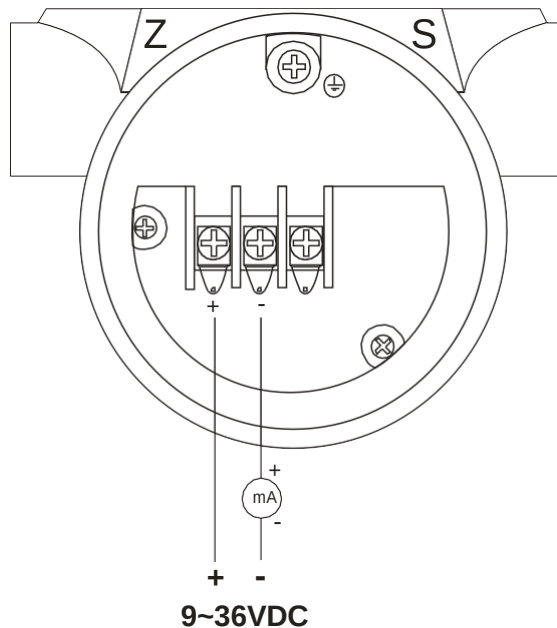
E-mail: admin@ipspl.in / sales@ipspl.in Website: www.ipspl.in

CIN : U52399MH2021PTC368555

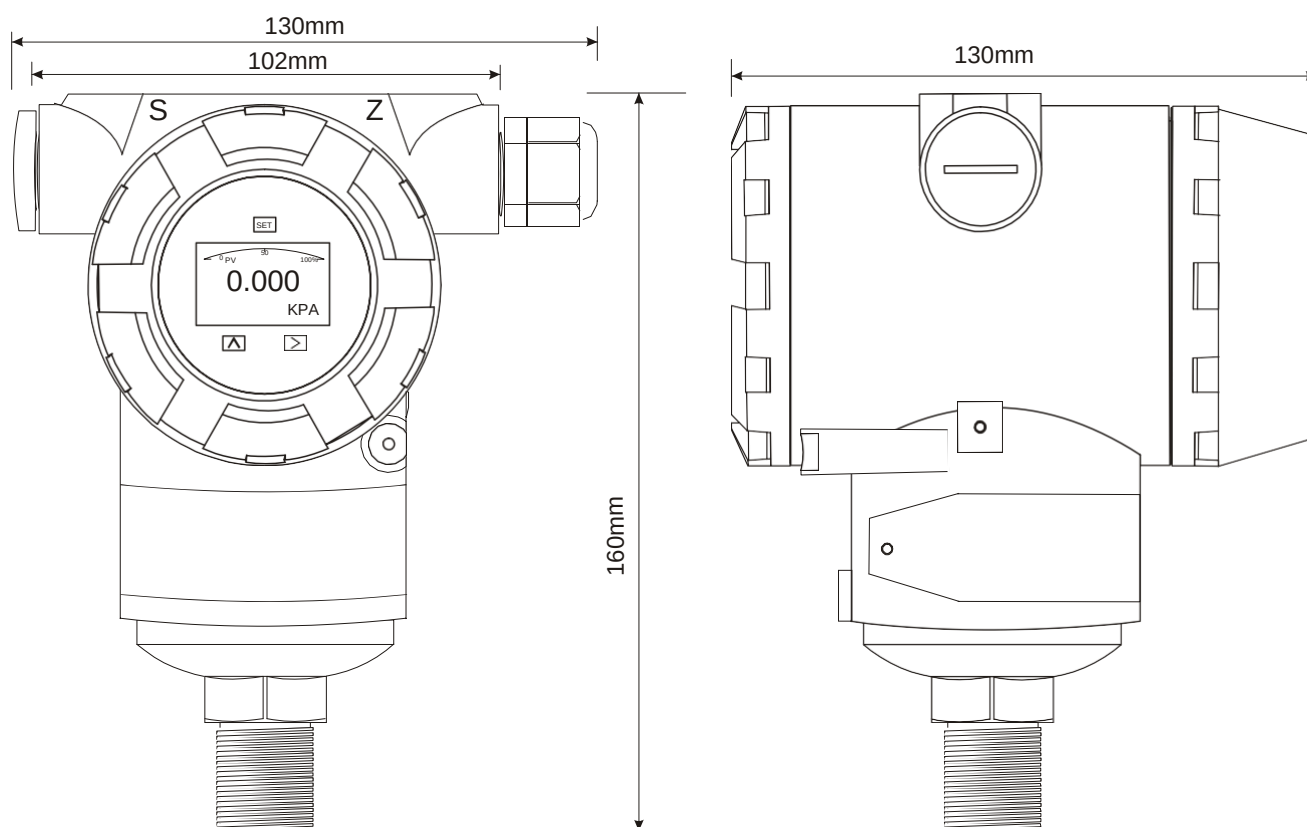
MEASURING RANGE

Range Code	Pressure Range				Transmitter	
	Low Range	High Range	Low Range	High Range	Gauge Pressure	Absolute Pressure
2	0 - 10 Kpa	0 - 30 Kpa	0 - 1020 mmH2O	0 - 3059 mmH2O	◆	◆
	0 - 100 mbar	0 - 300 mbar	0 - 40.15 InH2O	0 - 120.4 InH2O		
	0 - 1.450 psi	0 - 4.351 psi	0 - 0.102 Kg/cm2	0 - 0.306 Kg/cm2		
3	0 - 30Kpa	0 - 100 Kpa	0 - 3059 mmH2O	0 - 10197 mmH2O	◆	◆
	0 - 300 mbar	0 - 1000 mbar	0 - 120.4 InH2O	0 - 401.5 InH2O		
	0 - 4.351 psi	0 - 14.50 psi	0 - 0.306 Kg/cm2	0 - 1.020 Kg/cm2		
4	0 - 100 Kpa	0 - 200 Kpa	0 - 10.20 MH2O	0 - 20.39 MH2O	◆	◆
	0 - 1000 mbar	0 - 2000 mbar	0 - 401.5 InH2O	0 - 802.9 InH2O		
	0 - 14.50 psi	0 - 29 psi	0 - 1.020 Kg/cm2	0 - 2.039 Kg/cm2		
5	0 - 200 Kpa	0 - 700 Kpa	0 - 20.39 MH2O	0 - 71.38 MH2O	◆	◆
	0 - 2.0 Bar	0 - 7.0 Bar	0 - 802.9 InH2O	0 - 2810 InH2O		
	0 - 29psi	0 - 101.5 psi	0 - 2.039 Kg/cm2	0 - 7.138 Kg/cm2		
6	0 - 700 Kpa	0 - 1.7 Mpa	0 - 71.38 MH2O	0 - 173.4 MH2O	◆	◆
	0 - 7.0 Bar	0 - 17.0 Bar	0 - 2810 InH2O	0 - 6825 InH2O		
	0 - 101.5 psi	0 - 246.6 psi	0 - 7.138 Kg/cm2	0 - 17.34 Kg/cm2		
7	0 - 1.7 Mpa	0 - 3.5 Mpa	0 - 173.4 MH2O	0 - 356.9 MH2O	◆	◆
	0 - 17.0 Bar	0 - 35.0 Bar	0 - 6825 InH2O	0 - 14051 InH2O		
	0 - 246.6 psi	0 - 507.6 psi	0 - 17.34 Kg/cm2	0 - 35.69 Kg/cm2		
8	0 - 3.5 Mpa	0 - 7.0 Mpa	0 - 356.9 MH2O	0 - 713.8 MH2O	◆	◆
	0 - 35.0 Bar	0 - 70.0 Bar	0 - 14051 InH2O	0 - 28102 InH2O		
	0 - 507.6 psi	0 - 1015 psi	0 - 35.69 Kg/cm2	0 - 71.38 Kg/cm2		
9	0 - 7.0 Mpa	0 - 32 Mpa	0 - 713.8 MH2O	0 - 3263 MH2O	◆	◆
	0 - 70.0 Bar	0 - 320.0 Bar	0 - 28102 InH2O	0 - 128468 InH2O		
	0 - 1015 psi	0 - 4641.2 psi	0 - 71.38 Kg/cm2	0 - 326.3 Kg/cm2		
A	0 - 32 Mpa	0 - 70 Mpa	0 - 3263 MH2O	0 - 7137.9 MH2O	◆	◆
	0 - 320 Bar	0 - 700.0 Bar	0 - 128468 InH2O	0 - 281024 InH2O		
	0 - 4641.2 psi	0 - 10152.6 psi	0 - 326.3 Kg/cm2	0 - 713.8 Kg/cm2		

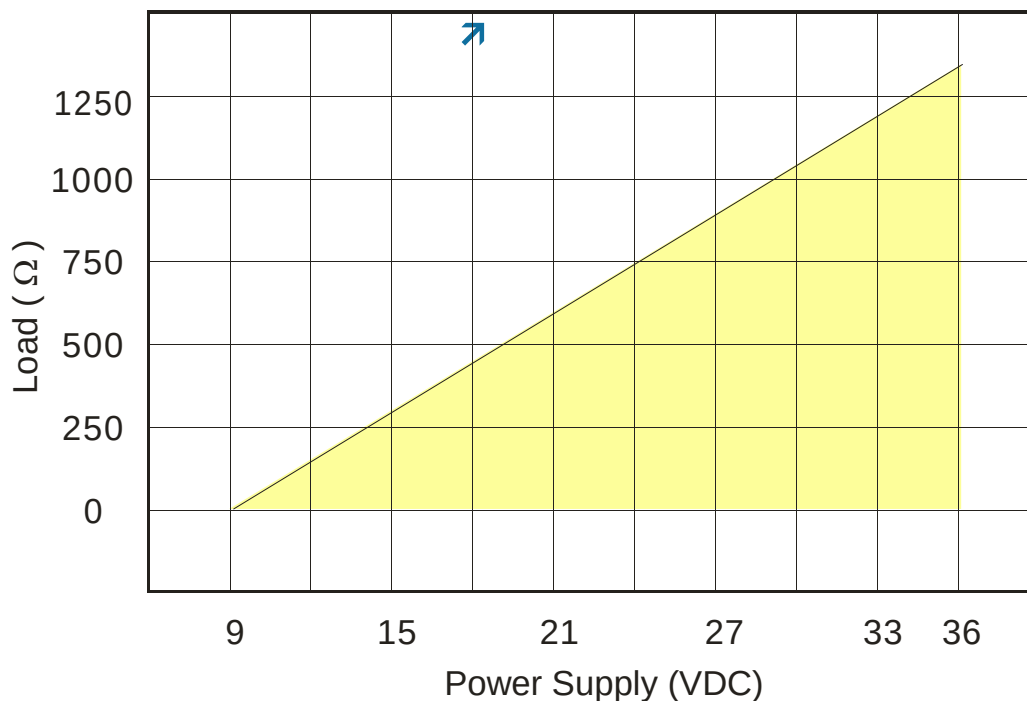
WIRING DIAGRAM



DIMENSIONS



Supply Voltage VS Loop Load



HOW TO ORDER

MODEL CODE

IPS-PT-14

PRESSURE RANGE

2	0-0.1~1.5 Kpa	5	0~186.8 Kpa	8	0~6890 Kpa
3	0~7.5 Kpa	6	0~690 Kpa	9	0~20680 Kpa
4	0~37.4 Kpa	7	0~2068 Kpa	0	0~41370 Kpa

X

OUTPUT

L	4-20mA DC/smart button, linear output	S	4-20mA DC/HART, linear output
---	---------------------------------------	---	-------------------------------

X

DIAPHRAGM MATERIAL

N	Stainless Steel 316L	T	Hastelloy C	Z	Other
---	----------------------	---	-------------	---	-------

X

PROCESS CONNECTION

4 NM	1/2" NPT M	4MM	M20*1.5 M	XY	Others
4 NF	1/2" NPT F	4GM	G1/2" M		

XX

FILLING OIL

2S	Silicone oil	2F	Fluorine oil
----	--------------	----	--------------

X

CABLE ENTRY

1	M20*1.5 Conduit Threads	2	1/2" NPT (Female)	0	Other
---	-------------------------	---	-------------------	---	-------

X

MOUNTING BRACKET MATERIAL

B00	None	B15	Tube mounted flat bracket (Carbon Steel)
B16	Wall mount bracket (Carbon Steel)	B17	Tube mounted flat bracket (Stainless Steel)
B18	Wall mount bracket (Stainless Steel)		

XXX

OPTIONS

NN	None	IXP	Intrinsically Safe Exia II CT4~T6	LCD	LCD display
EXP	Intrinsically Safe + Explosion proof Exd II CT4~T6			XYZ	Others

XXX

**MATERIAL TEST CERTIFICATE WILL BE PROVIDED ONLY FOR WETTED PARTS WITH CHEMICAL COMPOSITION TESTING.FOR OTHERS PLEASE CONTACT FACTORY.

Note: Specifications and dimensions given in this catalogue the state of engineering at the time of printing.
Modifications may take place and material specified may be replaced by others without prior notice.



Industrix Precise Solutions Private Limited

Room No – 303, Bhumika Residency, Plot No-21, Sector-20, Roadpali, Kalamboli, Panvel (Tal.), Raigad (Dist.),
Maharashtra, India – 410218.

Mobile: +91 99309 98399 / +91 99674 97447

E-mail: admin@ipspl.in / sales@ipspl.in Website: www.ipspl.in

CIN : U52399MH2021PTC368555