



MODEL: PTI811 & PTI811X



Also available as
EX version

- 3-15 PSI AIR INPUT AND 4-20 mA OUTPUT
- INTRINSICALLY SAFE (OPTION)
- TEMPERATURE COMPENSATION
- 316L STAINLESS STEEL WETTED PARTS
- 0.2% ACCURACY WITH FINE ADJUSTMENT
- ACCURATE AND STABLE 2-WIRE TRANSMITTER

INTRODUCTION

Indumart *PTI811* Pressure to Current (P/I) Converter is a two-wire transmitter which produces a 4-20 mA output signal directly proportional to its 3-15 psi (0.2-1 bar) pressure input. Premium grade and precision electronic components are used throughout this instrument to assure excellent accuracy and stability, high reliability and long life. The *PTI811X* is suitable for potentially explosive environment.

The *PTI811* transducer does not require adjustment, but for future calibration, zero and span adjustments are accessible to the operator. The factory adjustment is for 3-15 psi input, while adjustment for 0.2-1 bar input maybe performed at the factory at no cost, if it's required by the customer at the time of ordering.

The *PTI811* operates in media temperature of up to 120°C and compensate for the errors due to temperature variations of up to 80°C. This '2-wire' transducer meets the requirements for a great level of electromagnetic compatibility (EMC) protection.

The pressure connection of the *PTI811* is 1/2" NPT male, while other connections may be ordered after confirmation by Indumart.

SPECIFICATIONS

Accuracy	0.2% of full scale
Case	304 St. steel
Wetted Parts	316L St. steel
Process Connection	1/2" NPT male or G1/2 male
Input	3... 15 psi or 0.2 ~ 1 bar Other ranges available; please enquire
Output Signals	2-wire 4-20 mA
Supply power	10.5-36 VDC
Intrinsically Safe	II 1/2 Ex ia IIC T4/T5 (option)

Electric Connection	Plug with junction box
Load (R) in ohms	$R < (U_{\text{supply}} - 10.5V) / 0.02 A$ $R > 5 k\Omega$ for volt output
Over-pressure Limit	60 psi (4 bar)
Zero & Span Adjust.	10% of the nominal range
Thermal Error	Typically 0.02%/°C
Medium Temperature	-40...120°C
Compensated Temp.	-10...80°C
Ambient Temperature	-40...80°C
Environ. Protection	IP65

DIMENSIONS (mm)

