2018

CATÁLOGO DE INGLÉS

PTH 501 H



DIFFERENTIAL PRESSURE TRANSMITTER **HART**





Differential Pressure Field-Mounted Transmitter PTH501H with HART Protocol



Application Area

Field mounted differential pressure transmitter PTH501H with HART- protocol for converting pressure into a scalable 4 to 20 mA analogue output signal. Typical area use of this transmitter is Process Control, differential pressure for deriving flow rated (volumetric or mass flow), level, mass or volume

Input Types

This Transmitter uses differential pressure sensor as input analogue signal.

- High Performance and Accuracy in total ambient pressure and Temperature range
- Digital Communication and Universal configuration with HART protocol communicator or PC-based configuration
- Self-diagnostics function ensures longterm performance and lower cost of ownership
- High Resolution LCD display and a bargraph with an indicator for alarms
- 2-wire technology, Loop-powered
 4-20mA temperature Transmitter analogue output with HART protocol
- ullet Wide voltage supply range from 9V DC without load up to 15V DC with 250 Ω load
- Extremely high overload limit and High temperature and long term stability
- Minimum temperature and static pressure influence



Minimum	9V DC without load 15V DC with 250Ω load		
Maximum	36V DC		
Output Signal		4 to 20 mA	
Signal on Alarm		Under Range 3.9 mA Over Range 21 mA	
Load		Max. 23mA	
Transmission Behavior		Loop Current Linear in Input Range	
inges			
Sensor Type	Nominal Pressure	Max. Permissible Overload	
·S	±40KPa	13MPa	
S	±200KPa	13MPa	
'S	±2100KPa	13MPa	
acteristic			
Accuracy			
Stability		±0.3% of output reading or ±0.5°C (whichever is greater)	
5 Years Stability		C (whichever is greater)	
Noise suppression for noise frequency		50/60 Hz	
Update time		< 0.5 sec	
Response Time		2 sec	
Switch on Delay		3 sec	
Influence of Ambient		Negligible	
Load Influence		Negligible	
Power Supply Influence		Negligible	
	1μΑ		
	ensor Type S S S Acteristic	4 to 20 mA Under Range 3.9 mA Over Range 21 mA Max. 23mA Loop Current Linear in Input R nges ensor Type Nominal Pressure \$\pmathbb{\pm	

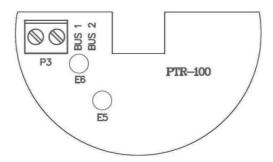


Electromagnetic Compatibility (EMC) standards				
Electromagnetic Compatibility (EMC) standards		IEC/EN 61326-1: 2006 IEC/EN 61326-2-3: 2006		
	ESD	4KV Contact 8KV Air		
	Radiated	80-1000MHz @ 10V/m AM		
	Burst	1KV		
EMC	Surge	0.5KV Line-Line 1KV Line-Earth		
	Conducted	150KHz to 80MHz @ 10V		
	Magnetic	50Hz @ 30A/m		
	Emission	30-230MHz, 30dB (uV/m) @ 10m 230-1000MHz, 37dB (uV/m) @ 10m		
Vibration Effect		10 to 60 Hz : 0.21mm peak Displacement 60 to 500 Hz : 3g		
Operating Temperature		Without LCD: -40°C to +85°C With LCD: -20°C to 60°C		
Relative humidity		0% to 95%		
Protection rating (Enclosure)		IP66		
Others				
Display Type		Graphical Display, 8×17 Characters, 102x64 Pixels, FSTN Pos. Transflective		
Weight		Approx. 3,150 g		
Display Range		pressure :-9999.9 Current : 99.999		
Materials		Aluminum die cast		



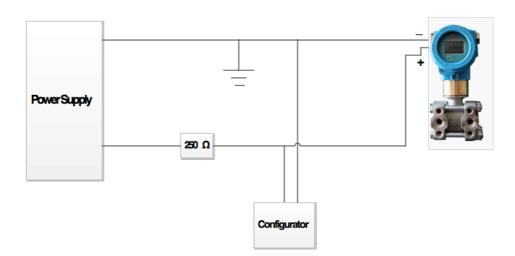
Electrical Connection of Sensors

Figure 1: Diagram of Connectors on the PTH501H



Connection	Description	
BUS 1	HART Network connector (without polarization)	
BUS 2	HART Network connector (without polarization)	

Figure 2: Wiring Diagram for the PTH501H Working as a Transmitter.





Electrical Field Connection Diagram

