

# PT-509 Pressure Transmitter

## Description:

The PT-509 pressure transmitter uses a 96% alumina sensor core. Through a highly reliable amplification circuit and precise digital temperature compensation and non-linear correction technology, it converts the pressure of the measured medium into a 4~20mA, 0~5VDC analog Signal. Professional waterproof hammer design, its structure can withstand great damage pressure, so its safety is extremely high. It is the first choice ceramic pressure transmitter for use in high-demand workplaces. It is widely used in automobiles, food, medicine, industrial automation, water pumps, etc. Petroleum, chemical industry, pneumatic equipment, hydraulic equipment, air conditioning, air compressor and other fields.

## Main Features:

Compact and easy to install, reverse polarity protection, reliable performance, safe and convenient to use  
 Ceramic sensor, high cost performance  
 Professional waterproof hammer design  
 High sensitivity, high precision, high stability  
 Full temperature zone temperature compensation, good electrical performance and long-term stability  
 One year warranty!

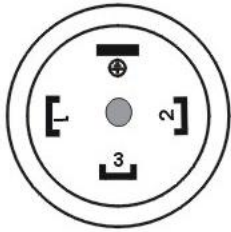
## Technical specifications:

Pressure range	Guage pressure 0~1bar...50bar		
Overload Pressure	200%FS		
Accuracy	±0.5%FS		
Temperature compensation range	-40~85°C		
Temperature drift	±0.03%/°C		
Long term stability	±0.3%FS/year		
Working Temperature	-40~85°C		
Storage temperature	-40~125°C		
Output signal	Absolute Value0-5V	Rate0-5V	4-20mA
Power supply (V)	6-36 or 3.0-5.5	3.0-5.5	11-36
Power consumption (mA)	2.5 (TYP)	2.5 (TYP)	-
Load Resistance (Ω)	>10K	>10K	≤50 (U-11)





## Electrical connection: Hirschmann connector



plug	wire	Voltage/three-wire current output	Two-wire current output
1	red	Power supply positive VCC	Power supply positive VCC
2	black	Power supply negative GND	Current output Iout
3	white	Output signal Vout/Iout	NC
4	NC	NC	NC

## Operate:



The red wire is connected to the power supply and the black wire is connected to the output signal.