

PCD51 Industrial Pressure Transmitter (Capacitance sensor)



- Capacitance sensor
- Perfect long term stability
- MEMS Technology
- CE certificate
- Available on FF H1, Profibus PA, Profibus DP and HART protocols

The Transmitter has high accuracy, better reliability and intrinsically safety.

Specification

Measuring object	Liquid, gas, stream
Power	9~32VDC (FF、PA)
	9~17.5VDC (FF、PA; explosion-proof)
	11.9~42VDC (HART)
	11.9~30VDC (HART; explosion-proof)

CE

Output	Analog: 2 wire 4~20mA Digital: HART, FF and PA signal
Load resistance	0~1500ohm (common) 250~550ohm (use HART)
Insulation	Voltage between terminal and housing: 500Vrms (707VDC)
Display	Optional 6 bits digital number or 5 bits characters LCD display
Temperature	Work temperature: -40 ~ 85°C (without display) -30 ~ 70°C (with display) -30 ~ 60°C (explosion-proof IC) Store temperature: -40 ~ 100°C (without display) -40 ~ 85°C (with display)
Humidity scale	5%~100%RH
Start time	≤ 5 seconds
Refresh time	0.2 seconds
Dump adjusting	Constant of time 0~15 seconds
Start time	≤ 5 seconds
Refresh time	0.2 seconds
Dump adjusting	Constant of time 0~15 seconds
Precision	±0.075% of the select range. If the select range <1/10 maximum of the range, the precision is ±[0.025+0.005× (maximum range/select range)]% of select range
Temperature effect	Effect of every change of 28°C (50°F) Select range ≥0.1 maximum range: ±[0.019% of maximum range +0.125% of select range] ; Select range <0.1 maximum range: ±[0.025% of maximum range+0.125% of select range].
Long time stability	In 12 months, ±0.1% of maximum range
Static pressure effect	±0.25%/13.8MPa of maximum range
Location installed effect	The maximum of the zero point movement is 0.24kPa
Power effect	< 0.005%/V of range calibrated
Protection	IP65