

# CLOUD BASED CONDITION MONITORING SMART DIFFERENTIAL PRESSURE TRANSMITTER



Smart Differential Pressure Transducer adopts foreign-made differential pressure sensitive chips and special transducer integrated circuits as well as high-performance key components and strict production process to ensure that this series product features superior performance, small dimensions and easy installation. Therefore, it is the optimum choice for micro differential pressure, flow field, flow rate, and flow measurement.

## Features:

Measuring range	0~10 Bar		
Positive permissible overpressure	≥3 times of full scale, ≤2MPa		
Negative permissible overpressure	2 times of full scale, ≤2MPa		
Maximun static pressure	≤20MPa		
Overall accuracy(nonlinearity + repeatability+ hysteresis)	±0.1%FS	±0.25%FS	±0.5%FS
Zero temperature error	±0.02%FS/°C(typical)	±0.05%FS/°C(maximum)	
Sensitivity temperature error	±0.02%FS/°C(typical)	±0.05%FS/°C(maximum)	
Influence of static pressure	±0.05%FS/100KPa		
Operating temperature	-10~80°C		
Compensation temperature	-10~50°C		
Long-term stability	±0.3%FS/year(≤200kPa)	±0.1%FS/year(≥200kPa)	
Range of power supply	12~36V DC(generally 24V DC)		
Output signal	Two-Wire 4~20mA DC, three-wire 0/1~5V DC		
Response time	≤2 ms		
Insulation resistance	100MΩ, 500VDC		
Influence of vibration	≤1% change after vibration at 3gRMS 30~2000Hz		
Impact	≤1% change after impact of 100g for 10ms		
Service life	1×10 <sup>8</sup> pressure cycles		
Medium	The liquid or gas adapting to structural material		
Enclosure protection class	Plug-in type(IP65); cable type(IP67)		
Safety and explosion protection	Ex iall CT5(intrinsically safe explosion-proof type)		
Weight	Approx 0.35kg		
Thermal hysteresis	±0.1%FS(typical value)		
Enclosure protection class	Plug-in type(IP65); cable type(IP67)		



## Electrical Connections

Description	PG7 Grand lock head outlet 1m Shielded cable	A type Hessman Plug	M12x1 Aviation plug Straight out or Corner out 1m unshielded cable	4 pins Aviation plug Straight out 1m unshielded cable
Code	W1	W2	W3/W4	W5
Diagram				
Protection Grade	IP67	IP65	IP67	IP65
Current output wiring definition	RED:V+ BLUE:OUT+	1#:V+ 2#:OUT+	BROWN(1#):V+ BLUE(3#):OUT+	RED:V+ BLUE:OUT+
Voltage output wiring definition	RED:V+ BLUE:OUT+ YELLOW:GND	1#:V+ 2#:OUT+ 3#:GND	BROWN(1#):V+ BLUE(3#):OUT+ BLACK(4#):GND	RED:V+ BLUE:OUT+ YELLOW:GND
	Current output wiring diagram		Voltage output wiring diagram	