



Principle structure

The PM800S uses a diffused silicon pressure sensor for pressure measurement, and the signal is converted into a standard industrial electrical signal output and display after processing by a post-processing circuit.

The explosion-proof housing design, with high-light LED digital display, makes this series of products can be used in a variety of industrial applications. The three-button design and menu make the product more convenient to use, and a variety of connection methods can fully meet various specific installation needs.

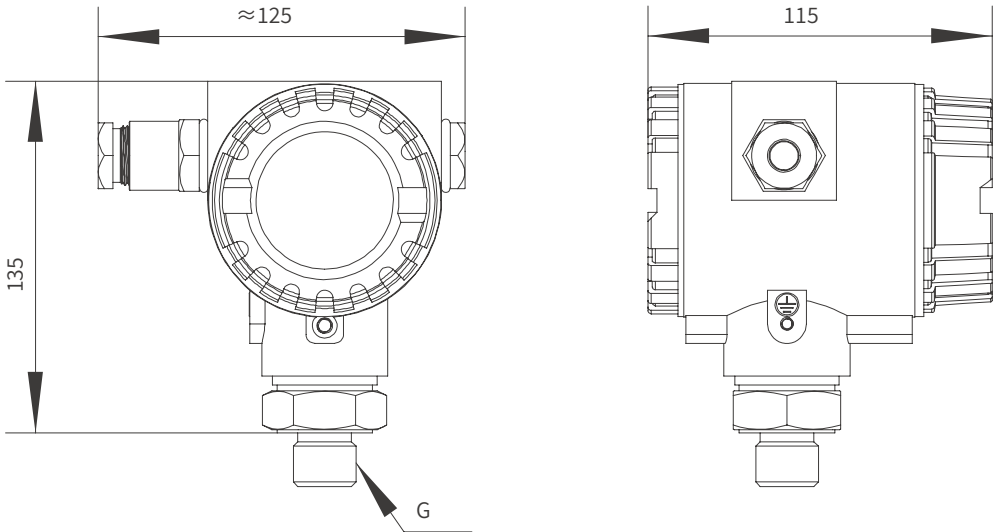
Technical parameter

◇ Supply voltage: 12... 36Vdc
◇ No-load current consumption: maximum 30mA, 24Vdc power supply
◇ Switch output
◇ Output type: PNP/NPN can be switched, normally open/normally closed can be set
S1, S2 Output current: <200mA
Response time: 0.01~2s (factory default)
Switching accuracy: $\leq \pm 0.5\%$ range
◇ Current type analog output: $\leq \pm 0.5\%$ range
Output type: 4... 20mA/0-5V/1-10V configurable
Load RA: $\leq 500\Omega$
Linearity: $\leq 0.5\%$ range
◇ Connection protection: reverse phase, overload, paragraph protection
◇ Display
Design: Red 4-bit 8mm high brightness LED
Display range: -1999... 9999
◇ Accuracy: $\leq \pm 0.5\%$ range
◇ Stability (annual drift) : $\leq \pm 0.3\%$ range
◇ Temperature
Medium temperature: -20... 85°C
Ambient temperature: -20... 80°C
Storage temperature: -30... 80°C
◇ Materials
Housing: cast aluminum
Medium contact part: stainless steel 304
◇ Protection class: EX d II C T6 Gb

Parameter list

pressure range	bar	1	2	5	10	16	25	60	100	160	250	400	600
	psi	15	30	75	145	230	370	900	1500	2300	3600	6000	9000
Max overload pressure		×5			×3			×2			×1.5		×1.3
Min failure pressure		×6			×4			×3			×2		×1.6

Dimension drawing (mm)



Wiring diagram

Binding post				
 1	 2	 3	 4	 5
12-36VDC	GND	OUT1	OUT2	OUT3

Two switches + one analog					
stitch	Instructions	stitch	Instructions	stitch	Instructions
1	power supply (+)	2	power supply (-)	5 (OUT3)	4-20mA (factory default) 1-5V 0-10V
3 (OUT1)	SP1 switch PNP (factory default) SP1 switch NPN	4 (OUT2)	SP2 switch PNP (factory default) SP2 switch NPN		

Option table

PM800S-	B	100	G14M	A3	G	E	expatiate
PM800S-							PM800S explosion-proof electronic digital display pressure
	B						Manometer pressure
	F						Negative pressure
		0001					Measuring range: -10... 10KPa or 0... 10KPa
		0006					Measuring range: -60... 60KPa or 0... 60KPa
		001					Measuring range: -1... 1bar or 0... 1bar
		002					Measuring range: -1... 2bar or 0... 2bar
		005					Measuring range: -1... 5bar or 0... 5bar
		010					Measuring range: 0... 10bar
		025					Measuring range: 0... 25bar
		060					Measuring range: 0... 60bar
		100					Measuring range: 0... 100bar
		160					Measuring range: 0... 160bar
		250					Measuring range: 0... 250bar
		400					Measuring range: 0... 400bar
		600					Measuring range: 0... 600bar
		1000					Measuring range: 0... 1000bar
			G14M				Process connection: G1/4 external thread
			G12M				Process connection: G1/2 external thread
			G14K				Process connection: G1/4 internal thread
			N14M				Process connection: NPT 1/4 external thread
			R14M				Process connection: R1/4 external thread
			M20M				Process connection: M20*1.5 external thread
			K50				Process connection: The outer diameter of the chuck connection is 50.5mm
				A3			Output signal: Two switch outputs + analog outputs
					G		Cable head (Non-explosion proof)
					M20K		Electrical interface: M20*1.5 internal thread
					G12K		Electrical interface: G1/2 internal thread
					N12K		Electrical interface: NPT1/2 internal thread
						E	Explosion-proof (EX d II C T6 Gb)
						S	Non-explosion proof