MAC ®
Sensor Co.,LTD

PRODUCT OVERVIEW

PRESSURE MEASUREMENT

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P802D Standard Industrial

LCD/LED Air Differential Pressure Transmitter

Characteristics

☆ Accuracy: ≤±0.5%F.S.

☆ Digital temperature compensation

☆ Imported chip assembled

☆ Strong anti-humidity and water-resistance

☆ Advanced circuit linearity

☆ Compact and easy to install

☆ IP65 enclosure

☆ Pressure sensitive

Applications

★ Industrial dust removal equipment

★ Purification plant

★ Blow down expander

★ Leak detection device

★ HAVC Air differential pressure

★ Wind pipe pressure measurement

★ Wind machine

★ Building control

Profiles

P802D is a differential pressure transmitter with a big HD LCD/LED display, designed for monitoring pressure or differential pressure in industrial and OEM applications, including electrical power, environmental protection, dust removal, textile, leakage detection and etc..

It adopts imported chip and is made by advanced technology and processes. The circuit linearity and temperature compensation technologies make it better performance. It is compact with stable structure and light weight. This product is suitable for measurement of various dry and non-corrosive gases with high measurement accuracy.

Besides, its installation is very simple. There are M4 screw mounting holes on both sides of the housing, and the air nozzle is also threaded. The user can choose to fix it with screws or M10×1.5 nuts.

Specifications

Parameter \ Model	P802D			
Accuracy	≤±0.25%F.S (by customized); ≤±0.5%F.S (Typical);			
Pressure Range	0-200kpa max or ±100kpa			
Working Temp.	-10℃~80℃ at 25℃			
Temp. compensation	-10℃~80℃			
Medium compatible	Dry and non-corrosive gases			
Electrical Wire	2 Wires	3 Wires		4 wires
Output	4~20mA	0~5V	0~10 V	0.5-4.5V	RS485 MODBUS
Power Supply	8-30V with potentiometer; 24-30V without potentiometer		5Vdc	8-30V with potentiometer; 24-30V without potentiometer
Electrical connection	Fixed cable outlet			
Pressure connection	Φ8 gas port, Φ6 gas port , quick connector optional			
Housing material	Aluminum			
Pressure Type	Differential Pressure			
IP Rating	IP65			

Dimension and Drawing
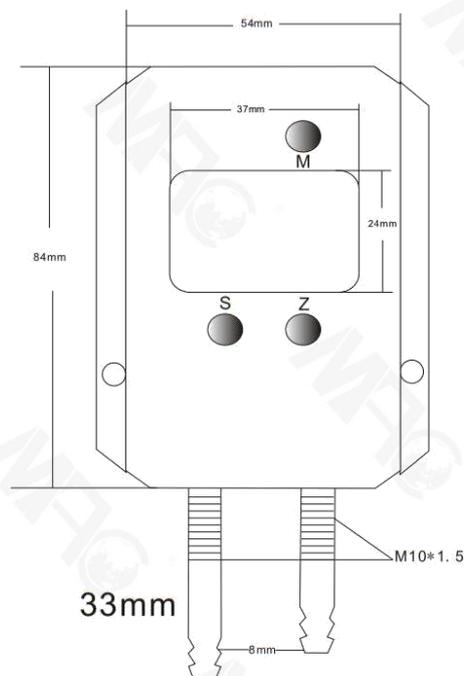
Electrical Connections

Wiring for current and voltage output

Two-wire current output wiring diagram

Three-wire voltage output wiring diagram
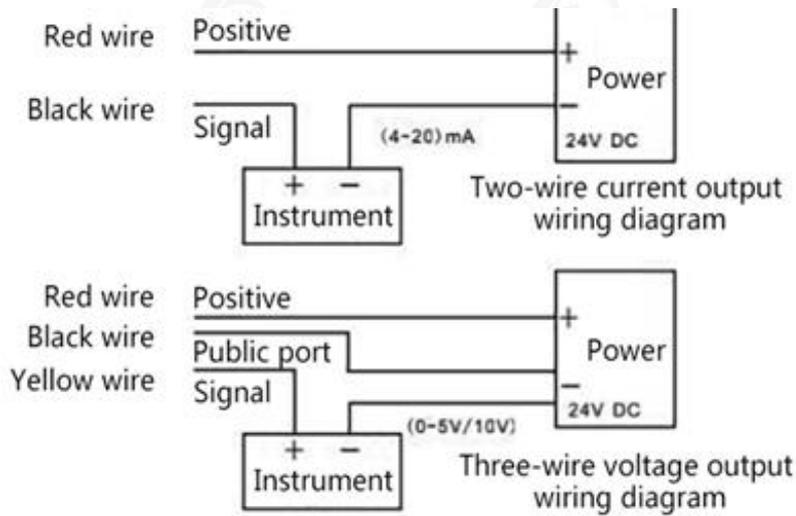
Wiring for RS485 output
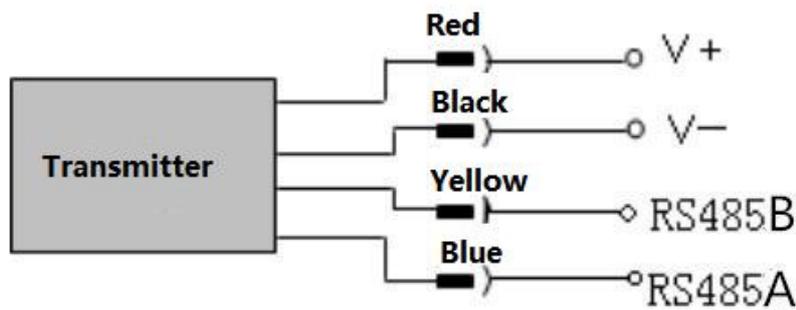
Part Number Code Table For Pressure Range

	Code	Range		Code	Range		Code	Range			
	000	0~1KPa		009	0~10KPa		018	0~100KPa			
	001	0~2KPa		010	0~20KPa		019	0~150KPa			
	002	0~3KPa		011	0~30KPa		020	0~200KPa			
	003	0~4KPa		012	0~40KPa						
	004	0~5KPa		013	0~50KPa						
	005	0~6KPa		014	0~60KPa						
	006	0~7KPa		015	0~70KPa						
	007	0~8KPa		016	0~80KPa						
	008	0~9KPa		017	0~90KPa		X	Customized			

Order Information

P/N Selection	802D (Model)	010	C	E5	S40	K	1	1	39	P1
Range	Refer to *PART NUMBER CODE TABLE FOR RESSURE RANGE* on previous page and select your requested range code here.									
Display	C=LCD E=LED									
Output	E7=0-10V(3 wire) E5=4-20mA(2 wire) E6=0-5V(3 wire) E8=0.5-4.5V (3 wire) E11=RS485 Modbus RTU X= By customized									
Power Supply	S12=8-30VDC S40=24-30VDC S6=5VDC X= By customized									
Pressure unit	A=Pa K=kPa B=bar									
Accuracy	1=0.5%F.S 2=0.25%(by customized)									
Cable Length	0=Cable 0m 1=Cable 1m 2=Cable 2m X=Cable x m									
Pressure Connection	39= Ø6 gas mouth 40= Ø8 gas mouth 41= Quick connector X= By customized									
Max Static Pressure	P1=Standard by DP range									