

# PRODUCT OVERVIEW

# PRESSURE MEASUREMENT

MAC Sensor Co.,LTD.  
Changsha City,Hunan,China  
<http://www.macsensor.com>  
TEL: +86-731-89975636 / 89975645

## P802 Standard Industrial Air Differential Pressure Transmitter



### Characteristics

- ☆ Accuracy:  $\leq \pm 0.5\% \text{F.S.}$
- ☆ 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

P802 is a differential pressure transmitter with high reliability, stability, and accuracy, designed for monitoring pressure or differential pressure in industrial and OEM applications, including electrical power, environmental protection, dust removal, textile, leakage detection and etc..

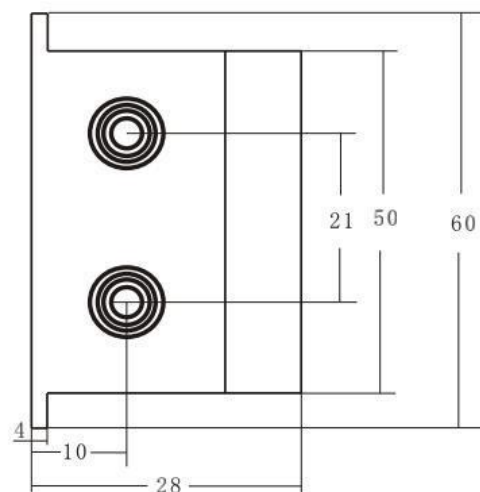
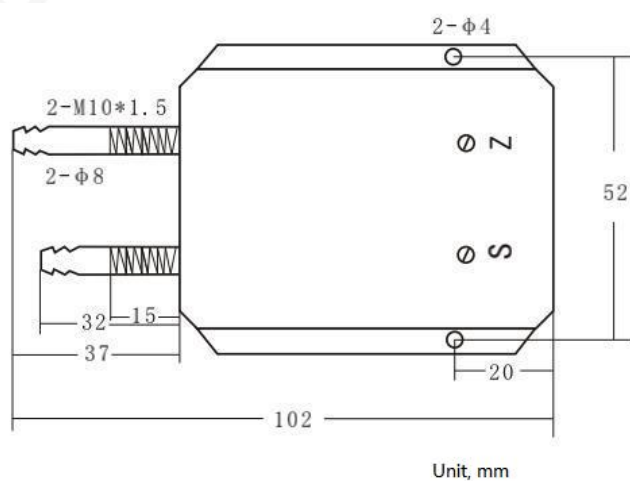
It adopts imported chip and is made by advanced technology and processes. The circuit linearity and temperature compensation technologies make it better performance. It is compact with stable structure and light weight. This product is suitable for measurement of various dry and non-corrosive gases with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

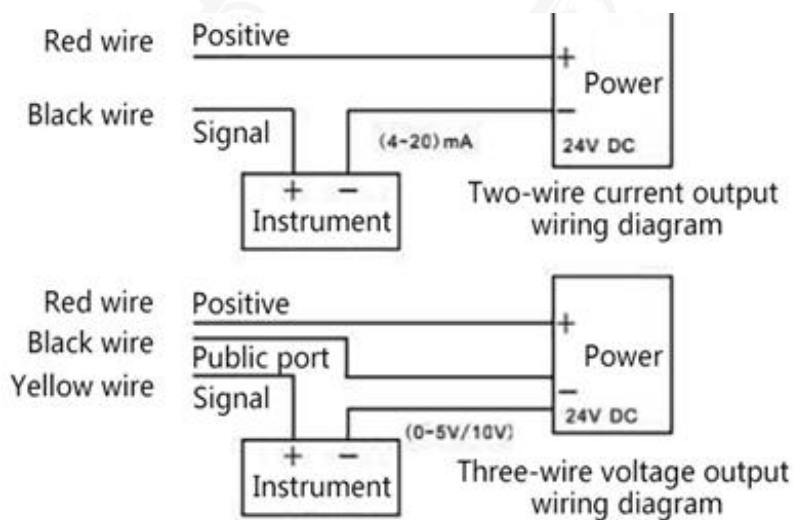
<div>Model</div> <div>Parameter</div>	P802				
Accuracy	≤±0.25%F.S (by customized); ≤±0.5%F.S (Typical);				
Pressure Range	0-100Pa...200KPa max or ±100Pa...200KPa				
Working Temp.	-10℃~80℃ at 25℃				
Temp. compensation	-10℃~80℃				
Medium compatible	Dry and non-corrosive gases				
Electrical Wire	2 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

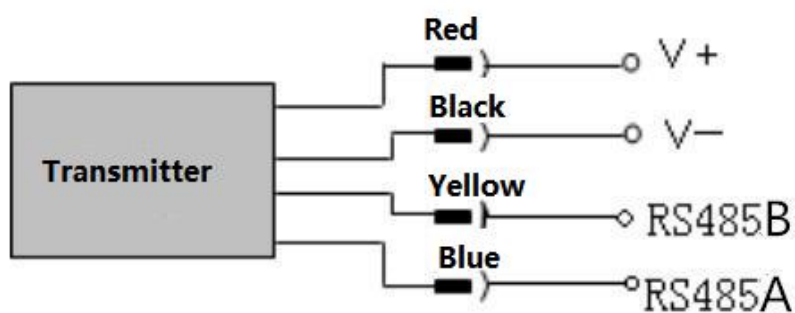


## Electrical Connections

### Wiring for current and voltage output



### Wiring for RS485 output



## Part Number Code Table For Pressure Range

000	±1	009	±250	018	50	027	600
001	±2	010	±300	019	100	028	700
002	±5	011	1	020	150	029	800
003	±10	012	2	021	200		
004	±20	013	5	022	250		
005	±50	014	10	023	300		
006	±100	015	20	024	350		
007	±150	016	25	025	400		
008	±200	017	30	026	500	X	Customized

## Order Information

P/N Selection	802 (Model)	010		E5	S40	K	1	1	39	P1
Range	Refer to <i>PART NUMBER CODE TABLE FOR RESSURE RANGE</i> on previous page and select your requested range code here.									
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 41= Quick connector		40= Ø8 gas mouth X= By customized							
Max Static Pressure	P1=Standard by DP range									