PM410 Anti-corrosion pressure transmitter

MAIN FEATURES

- A variety of output signals are optional;
- Wiring mode and application environment are optional;
- Anti-interference, anti-surge protection;
- PTFE shell, ceramic core;
- Intrinsically safe products meet the ExiaIICT6 explosion-proof requirements of the GB3836.4 standard

OVERVIEW

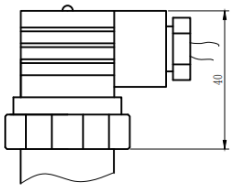
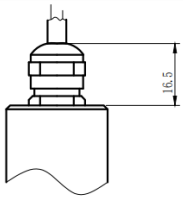
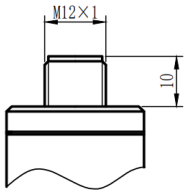
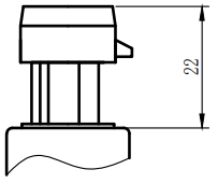
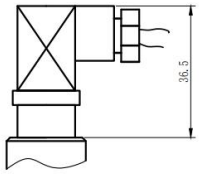
PM410 anti-corrosion pressure transmitter is specially designed for pressure measurement of strong corrosive media. The product uses imported ceramic piezoresistive or ceramic capacitive sensors as sensitive components, and the shell material is made of corrosion-resistant and strong PTFE or PVDF materials, with special signal conditioning circuit After all-round linear error and temperature error compensation, it is made into a pressure liquid level measurement product with strong corrosion resistance.

SPECIFICATION

Items	Parameter
Range	-100KPa…0;0…1KPa…2.5MPa
Accuracy	±0.1%FS;±0.25%FS;±0.5%FS;±1.0%FS
Long-term stability	⩽0.2%FS/year@0.5%FS
Zero temperature drift	±0.02%FS/℃
Full temperature drift	±0.03%FS/°C
Compensation temperature	0…50℃（0…100KPa）;-10…70℃（100KPa…2.5MPa）
Working temperature	-40°C~85°C
Power supply	8…30VDC;5VDC;3…5VDC
Output Signal	4…20mA;0.5…4.5V;0…10V;RS485;IIC
Response time	1ms
Diaphragm material	Al_2O_3 96%;Al_2O_3 99.6%
Housing material	PTFE;PVDF; TC4
Service life	>10 million pressure cycles
Protection level	IP65;IP66;IP67;IP68
Vibration resistance	10g (IEC 60068-2-6 standard, under resonance conditions)
Shock resistance	500g (IEC 60068-2-27 standard, mechanical shock)
Safe overload	150%FS
Load (Ω)	Current (2-wire system): ≤ (power supply voltage-8V)/0.02A Voltage (3-wire system): >Maximum output signal/1mA Proportional voltage (3-wire system): >10K
Current Consumption	Current (2-wire system): signal current, maximum 25mA; Voltage (3-wire): 8mA Proportional voltage (3-wire): 8mA; RS485: 10uA…10mA

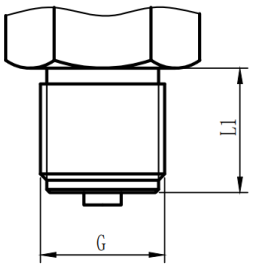
E-mail: info@cdsentec.com www.cdsentec.com

ELECTRICAL INTERFACE

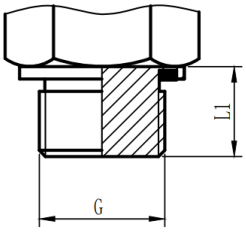
					
Code	10	Code	11	Code	12
Wire method	Hirschman socket	Wire method	Direct outgoing line	Wire method	Aviation socket
Protection	IP65	Protection	IP66	Protection	IP66
					
Code	13	Code	14	Code	15
Wire method	Liquid level outlet	Wire method	PACK socket	Wire method	Small Hirschman socket
Protection	IP68	Protection	IP65	Protection	IP65

PROCESS CONNECTION

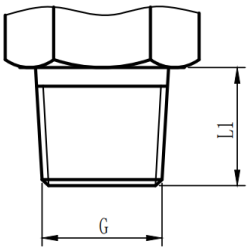
Unit: mm



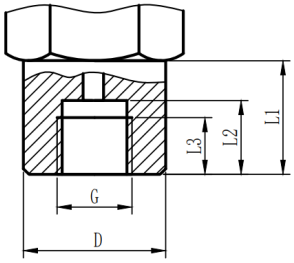
G	L1
G1/4 B EN 837	13
G1/2 B EN 837	20
M20*1.5	20



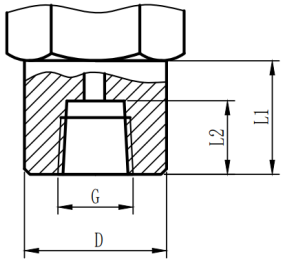
G	L1
G1/4 A DIN 3852-E	14
G1/4 A DIN 3852-E	17
M14*1.5	14



G	L1
1/8 NPT ANSI/ASME	10
1/4 NPT ANSI/ASME	13
1/2 NPT ANSI/ASME	19

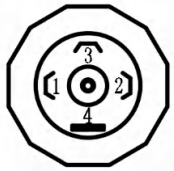


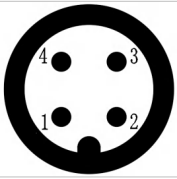
G	L1	L2	L3	D1
G1/4 B EN 837	20	13	10	25



G	L1	L2	D1
1/4NPT	20	13	25

ELECTRIC CONNECTION

Hirschman socket		PIN1	PIN2	PIN3	PIN4
	4…20mA two-wire	V+	S+	null	GND
	0…10V/0.5…4.5V	V+	V-	S+	GND
	RS485	V+	V-	RS485A	RS485B

M12 aviation socket		PIN1	PIN2	PIN3	PIN4
	4…20mA two-wire	V+	S+	null	GND
	0…10V/0.5…4.5V	V+	V-	S+	GND
	RS485	V+	V-	RS485A	RS485B

Direct line		Red	Green	Yellow	Blue
	4…20mA two-wire	V+	S+	null	GND
	0…10V/0.5…4.5V	V+	V-	S+	GND
	RS485	V+	V-	RS485A	RS485B

PACK wire		A	B	C
	4…20mA two-wire	V+	S+	null
	0…10V/0.5…4.5V	V+	V-	S+

STORAGE & TRANSPORTATION

1. Check whether the instrument is in good condition during transportation, and contact us in time if there is any obvious damage;
2. Packaging and storage Do not remove the packaging before installation;
3. The conditions allowed by the storage place:

- Storage temperature: -40 ... +70 °C
- Storage humidity: 45 ... 75 % relative humidity (non-condensing)

[Safety Alert]

Installation and disassembly should be carried out under the guidance of professional technicians and in accordance with operating standards. Otherwise, there is a possibility of personal injury, and in severe cases, it may endanger life safety!

ORDER CODE

Code:	A	–	B	–	C	–	D	–	E	–	F	–	G
Model:	PM410	–	G	–	0-50bar	–	S	–	L	–	G 1/2	–	MA

Model	Code A
Standard Hirschmann connector	410
Direct cable connection	411
Aviation socket	412
Liquid level outlet	413
PACK socket	414
Small Hirschman socket	415
Pressure type	**Code B**
Gauge pressure	G
Absolute pressure	A
Sealed gauge pressure	S
Pressure Range(X=specific range)	**Code C**
-0.1MPa ~100MPa	X MPa
-1Bar ~1000Bar	X Bar
-15psi ~15000psi	X psi
Accuracy	**Code D**
0.1% (custom)	C
0.25%(typical)	T
0.5%(standard)	S
Interface material	**Code E**
Al_2O_3 96%;Al_2O_3 99.6%	A
Other customized	C

Process connection	Code F
M22*1.5	M22
G1/2	G1/2
M20*1.5	M20
M18*1.5	M18
G3/8	G3/8
M16*1.5	M16
M14*1.5	M14
G1/4	G1/4
M12*1	M12
M10*1	M10
G1/8	G1/8
1/2NPT	1/2NPT
1/2PT	1/2PT
3/8PT	3/8PT
3/8NPT	3/8NPT
1/4NPT	1/4NPT
1/4PT	1/4PT
1/8NPT	1/8NPT
Output signal	**Code G**
4~20mA	MA
0~10V	V1
0~5V	V5
RS485	RS
More output customized	C

Remarks:

1. The structure and types of this series are so much. In order to recommend the most suitable product for you, please specify the use environment and measurement media when consulting.
2. The cable materials are available in PVC, PUR, PE, and ZRPVC. The default is PVC material. If you have special requirements, please specify when ordering.
3. More other size except above mentioned could be customized according to the drawings provided.
4. LOGO print is available once authorized.