

MELTPRO



Melt Pressure and Temperature Transducers with Flexible Extension

features:

- Simultaneous pressure and temperature measurements at a single location
- Flexible extension providing further thermal isolation for electronics
- Amplified output signal of 4 ~ 20 mA, 0.5 ~ 5 V, or 0.5 ~ 10 V available
- Wide measuring range of 0 ~ 50 bar to 0 ~ 1000 bar
- Internal shunt calibration to 80 % FS
- Stainless steel wetted parts
- Interchangeable with all makes of melt pressure transducers

FUZYPRO

Melt Pressure Transducers/Transmitters

Based on strain gauges technology, FUZYPRO's melt pressure transducers/transmitters are developed and made 100% from stainless steel in mass production. Our melt pressure transducers are suit to measuring and controlling the pressure of some high temperature melts—such as chemical fiber, plastic, rubber and petrification—or other over proof liquids. Our company draws on the advanced technology from aboard and manufactures with imported materials and key apparatus, provides our products with stable work, credible capability, high accuracy, large outputted signal, good dynamic capability, small over proof zero temperature-excursion and other merits.

For application in food industry, FUZYPRO's melt pressure transducers/transmitters are manufactured without mercury.

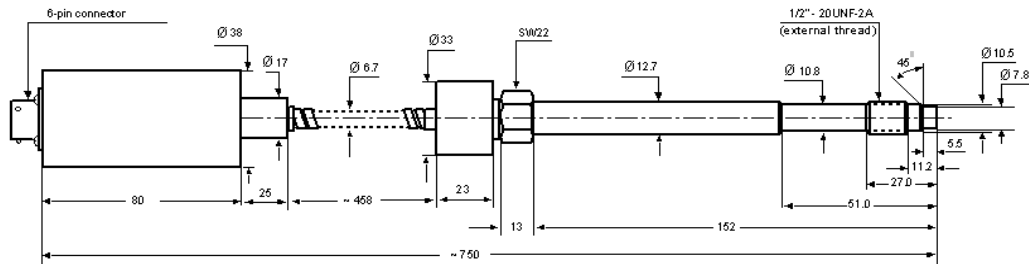
Model CS-MPT200 are extended with a flexible stem extension, which provides a further thermal isolation to the electronic circuitry. The output of melt pressure transducers is of either mili-volt or amplified signal, such as 0~10Vdc or 4~20mA.



Features:

- wide measuring range from 0 ~10bar to 0~ 2000bar
- higher measuring accuracy up to 0.25%FS
- internal shunt calibration signal of 80%FS
- 100% stainless made, with Ti-n coating on diaphragm
- rigid and compact construction
- hastelloy diaphragm available on request

Dimension:



Specification:

Measuring range	bar	0/10,0/20,0/35,0/50,0/70,0/100,0/200,0/350,0/500,0/700,0/1000,0/1400,0/2000
Combined error	%FS	0.25,0.5,1.0
Signal output@FS	mV/V	2.0,2.5,3.0,3.33
Amplified signal output		0/20mA,4/20mA,0/5Vdc,1/5Vdc,0/10Vdc,1/11Vdc
Supply voltage	Vdc	10(12max.) for MPT of mV/V output signal 24(12-36 acceptable) for MPT of amplified output signal
Repeatability	%FS	0.2
Overload pressure	%FS	150
Input resistance	Ω	350±10%
Output resistance	Ω	350±10%
Insulation resistance	Ω	≥500@100Vdc
Max.temp.@wetted parts	°C	400
Zero adjustment	%FS	±10
Span adjustment	%FS	±6
Temperature effect on ZERO	%FS/10°C	0.5
Temperature effect on SPAN	%FS/10°C	0.5
Long period stability	%FS/year	<0.15
Compensated temp. range	°C	0~80
Process connection		1/2"20UNF-2A (standard), M14X1.5, M18X1.5
Electrical connection		6-pin connector (standard) , 8-pin connector, 6-wire shield PVC cable
Max. mounting torque	N.m	40
Net weight	kg	~1

M

Melt Pressure Transducers/Transmitters

CS-MPT1200 Ordering Code

Model	
CS-MPT1100	CS-MPT1200
CS-MPT1300	CS-MPT1400

Pressure Range	
010=0~10bar	350=0~350bar
020=0~20bar	500=0~500bar
035=0~35bar	700=0~700bar
050=0~50bar	1000=0~1000bar
070=0~70bar	1400=0~1400bar
100=0~100bar	2000=0~2000bar
200=0~200bar	

Output Signal	
1=3.33mV/V	3=0~5V(4 wire)
2=0~10V(4 wire)	4=4~20mA(2 wire)

Process Connection	
1= 1/2"-20UNF-2A(Standard)	
2= M14X1.5	
3= M18X1.5	

Combined Error	
1=±0.25%FS	
2=±0.5%FS (Standard)	
3=±1.0%FS	

Length of Rigid Stem	
1=76mm	4=228mm
2=102mm	5=305mm
3=152mm(standard)	6=others

Length of Flexible Stem	
1=380mm(standard)	3=762mm
2=458mm	4=others

Temperature Measurement	
J=J-thermocouple (standard)	
K=K-thermocouple	
E=E-thermocouple	
Pt=Pt100 thermal resistor	

Electrical Connection	
X=6-pin male connector	
Y=8-pin male connector	
Z= 6-wire shield PVC cable	
Q=others	

CS-MPT200--700 -- 4 -- 1 -- 2 -- 3 -- 1 -- -- X

Order Code example: CS-MPT200 -700-4 -1-2- 3-1-X

CS-MPT200 melt pressure transducers of a flexible extension, measuring range 0/700bar, output signal 4-20mA, process thread 1/2"-20UNF-2A, combined error ±0.5%FS, rigid stem length 152mm, flexible extension length 380mm, 6-pin male electrical connector and other requests.

Heaters, Controls & Sensors

Model FZ-PT100/PT200 Economic Pressure Transducers/Transmitters

Based on FUZYPRO's silicon dies technology, FZ-PT100/PT200 are designed for a wide range pressure measuring. The transducers/ transmitters are made 100% from stainless steel or die-casting aluminum in mass production. It can be used at many kinds me mechanical equipments, widely used in fluid machinery such as pump and compressor, food and beverage industry, heat ventilation, air conditioning and refrigerating system construction machinery etc.

With the all welded constructions, transducers/transmitters can be specially used in some flammable environments.

The output of pressure transducers is mili-volts, and the transmitters is amplified signal, such as 4/20mA, 0/5V , 1/5V,0/10V or 1/10V.

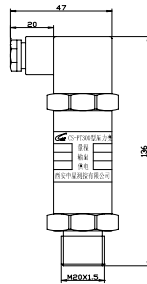


Feature:

- wide measuring ranges from -1/0bar to 0/350bar
- measuring accuracy of 0.2%FS, and 0.5%FS optional
- 100% made from stainless steel, or die-casting aluminum
- low cost, simple installation
- core elements adopt high performance oiled diffusion silicon

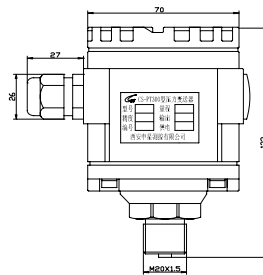
Dimension:

壳体A结构图



FZ-PT100

壳体B结构图



FZ-PT200

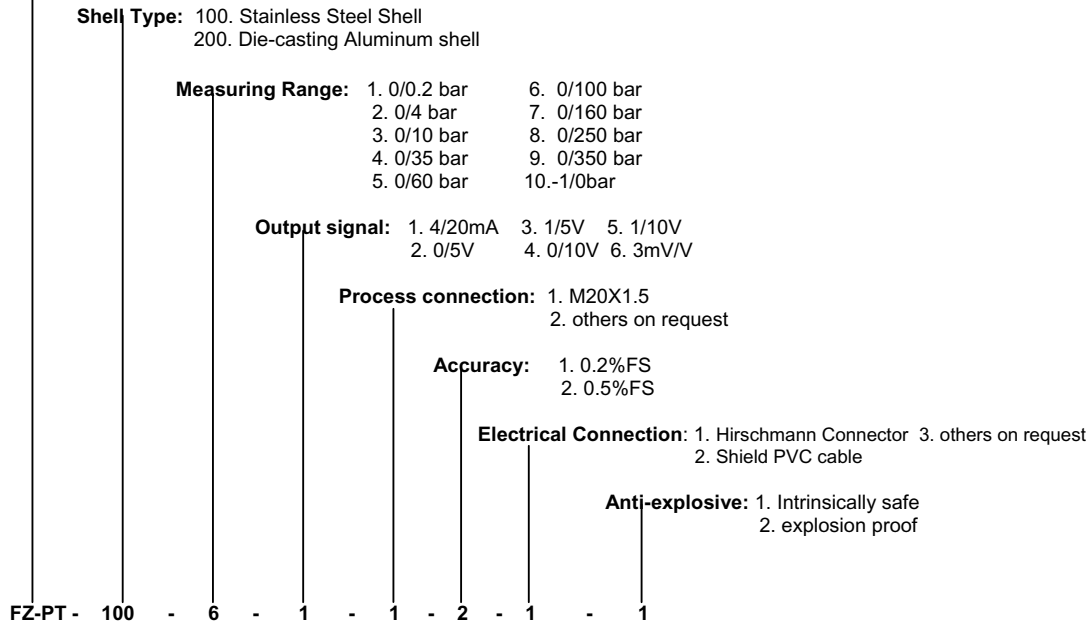
Specifications:

Measurement Range:	-1/0bar, 0 /2bar, 0/4bar, 0/10bar, 0/35bar, 0/60bar, 0/100bar, 0/160bar, 0/250bar, 0/350b also available in PSI
Pressure type:	Gauge Pressure
Accuracy:	0.2%FS, 0.5 %F.S. (including linearity, repeatability and hysteresis)
Compensation Temperature:	-10℃ to +100℃
Operating Temperature:	-40℃ to +85℃
Allowable Overpressure:	2.5 times Full Scale
Long term stability:	±0.2 %F.S./year
Response Time:	10 ms
Output Signal:	4 to 20 mA (two-wire type) , 0 to 5V(three-wire type) , 1 to 5V, 0 to 10V, 1 to 10V, 3mV/V
Power Supply:	24 Vdc±10%
Anti-explosive	Ex-ia or Ex-ib (intrinsically safe) or Ex-d (explosion proof)
Pressure Connection :	M 20 x 1.5(customizable), others on request

Model FZ-PT100/PT200 Economic Pressure Transducers/Transmitters

Ordering code:

Model: FZ-PT Economic pressure transducers/transmitters



Order Code example: FZ-PT100- 1- 6 -1- 1- 2 - 1-1

FZ-PT Economic pressure transmitters with stainless steel shell, measuring range 0/100bar, output signal 4/20mA, process thread M20X1.5, combined error 0.5%FS, Hirschmann connector, Intrinsically safe.

FUZYPRO

STANDARD PRESSURE TRANSMITTER

MODEL: PTF106

- EXCELLENT ALTERNATING LOAD RESISTANCE
- LONG SERVICE LIFE AND GREAT STABILITY
- 316L ST. STEEL HOUSING & PROCESS CONNECTION
- PRESSURE PEAK DAMPING ELEMENT
- TEMPERATURE COMPENSATION
- ABSOLUTE OR GAUGE PRESSURE
- RANGES UP TO 40 MPa (5800 PSI)
- ELECTROMAGNETIC (EMC) PROTECTION

ACCURACY
better than
0.3%



INTRODUCTION

The PTF106 Series Pressure Transmitters are very accurate and reliable instruments, which convert pressure inputs to current or voltage signals. These transmitters are equipped with a damping element to direct away pressure peaks or liquid hammering from their sensors; hence showing a high level of resistance to mechanical shocks. The typical response time of the PTF106 transmitter is 1 ms, and will never exceed 5 ms, even when the damping element is functioning and the fluid viscosity is at its peak.

The industrial PTF106 meets the electromagnetic compatibility (EMC) requirements of IEC61000-6-2 and IEC61000-6-3.

Output	Load Resistant	U _{supply}
4 - 20 mA	(U _{supply} - 10V)/20mA	10 - 34 VDC
0 - 5 VDC	≥1.0 kΩ	10 - 30 VDC
0 - 10 VDC	≥2.0 kΩ	15 - 30 VDC
1 - 6 VDC	≥1.0 kΩ	12 - 30 VDC
0 - 20 mA	≥0.5 kΩ	24 VDC ± 20%

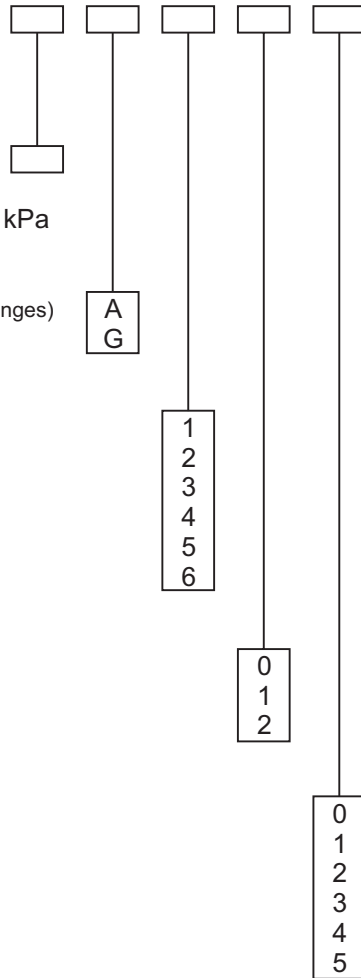
Code	Range	Over Range	Burst Pressure
01	0...1 bar	5 bar	30 bar
02	0...1.6	5	50
03	0...2.5	5	100
04	0...4	8	100
05	0...6	12	100
06	0...10	20	200
07	0...16	32	200
08	0...25	50	300
09	0...40	80	300
10	0...60	120	500
11	0...100	200	500
13	0...250	500	1000
14	0...400	800	1500
21	0...15 psi	30 psi	1000 psi
22	0...30	60	2500
23	0...60	120	2500
24	0...100	200	2500
25	0...150	300	4500
26	0...200	400	4500
27	0...300	600	4500
28	0...400	800	4500
29	0...500	1000	4500
30	0...600	1200	4500
31	0...750	1500	4500
32	0...1000	2000	7500
33	0...1500	3000	7500
34	0...2000	4000	7500
35	0...3000	6000	7500
36	0...5000	10000	15000

Please use XX code for vacuum, compound and special ranges.
Ex.: -1...4 bar, 0...5 bar, 0...12 bar, -10...30 psi, 0...120 psi, etc.

PRESSURE TRANSDUCERS

ORDER CODES

Model PTF106 -



RANGE

Select a range from the table (01 to 36)

for special ranges use XX. Ex: -100...+400 kPa

PRESSURE

Absolute (not applicable for vacuum & compound ranges)
Gauge

PROCESS CONNECTION

1/4" NPT male
1/4" NPT female
G 1/4 male
G 1/4 female
7/16"-20UNF male
7/16"-20UNF female

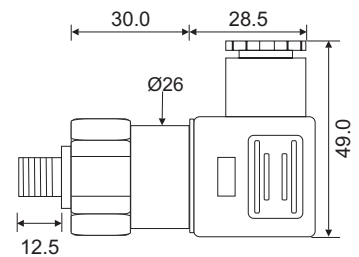
ELECTRICAL CONNECTION

DIN43650-A
M12x1 5-pol
1.5m, PVC Cable

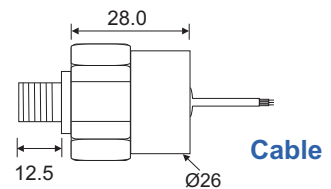
OUTPUT SIGNAL

4 - 20 mA
0 - 5 VDC
0 - 10 VDC (DC supply)
1 - 6 VDC
0.5 - 4.5 VDC
0 - 10 VDC (AC supply)

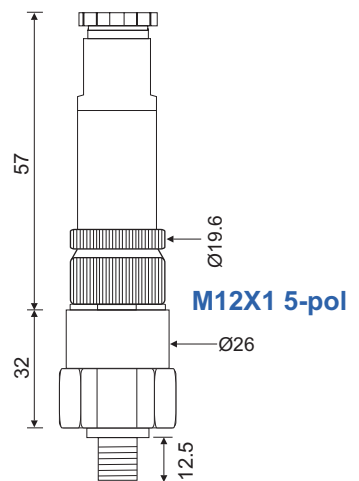
DIMENSIONS (mm)



DIN43650-a



Cable



M12X1 5-pol

we reserve the right to change the specifications without prior notice.

