

XPT SERIES MELT PRESSURE TRANSMITTER

EXPLOSION PROOF TYPE

FEATURES

- ◎ 4-20mA, 4-20mA+Hart output
- ◎ Fully welded housing optional
- ◎ 0-35 to 0-2000 bar / 0-500 to 0-30000 psi
- ◎ CE, Ex and other electrical safety and explosion-proof tests
- ◎ Temperature compensation
- ◎ Flange installation



INTRODUCTION

DWEL XPT Series are explosion-proof melt pressure transmitters with 4~20 mA output and HART protocol, specifically designed for use in hazardous environments. Constructed with a full stainless steel welded structure, this series offers both thread and flange installation options. The use of high-performance core components ensures exceptional measurement accuracy and reliability. The XPT Series is widely utilized for melt pressure control in high-precision polymer extrusion equipment, production lines, and laboratory instruments. It serves as an ideal replacement for Dynisco, Gefran, and Graeff.

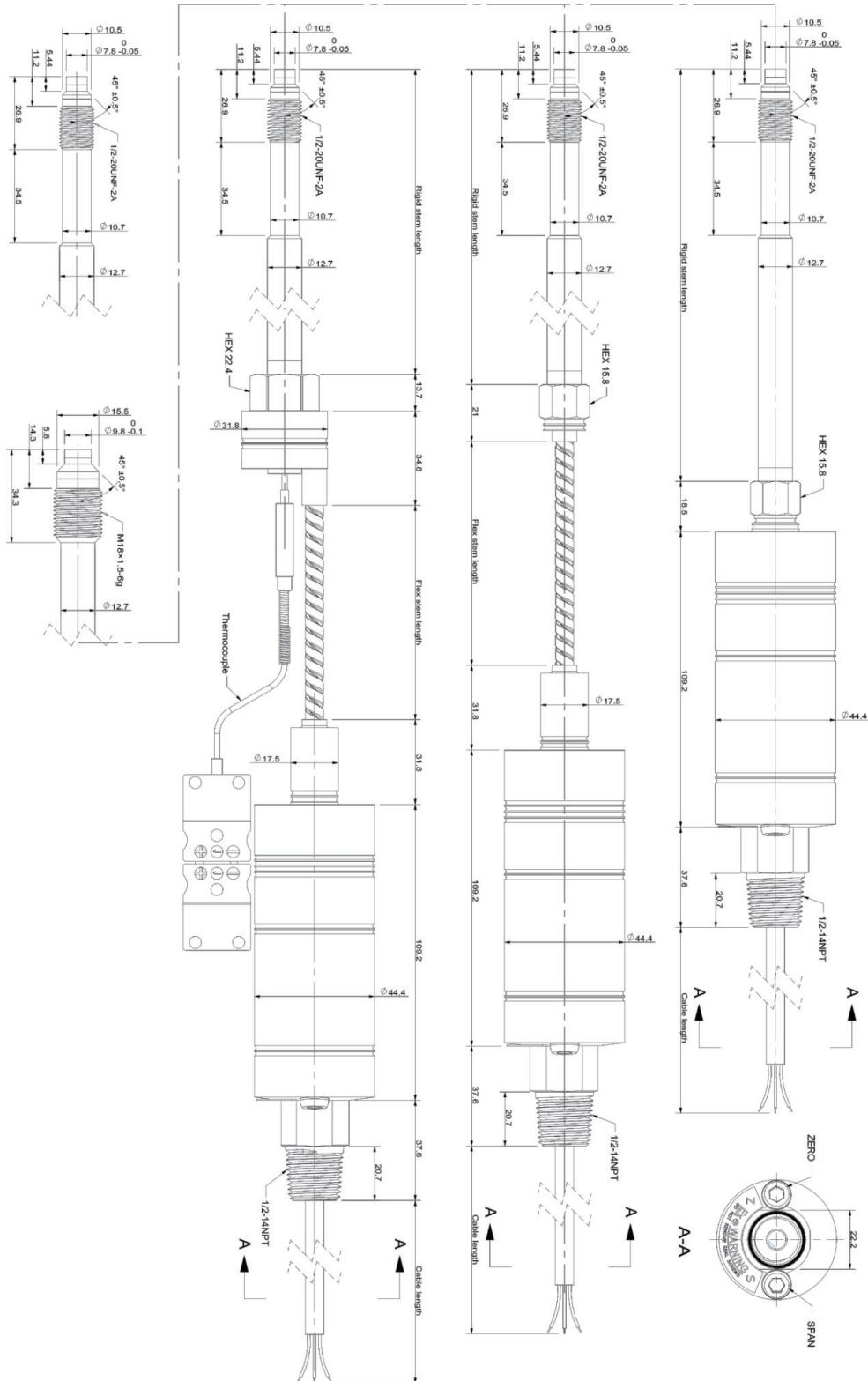
SPECIFICATIONS

Pressure range	0~35 to 2000bar(0~500 to 0~30000psi)
Accuracy	±0.25% FS, ±0.5% FS
Repeatability	0.2% FS, 0.4%, 0.8% FS
Input excitation	24Vdc recommended, 12-30Vdc
Output signal	4~20mA, 4~20mA+HART
Maximum diaphragm temperature	662F° (350°C) for rigid stem 752F ° (400°C) for flexible
Environment temperature	-20°C ~85°C

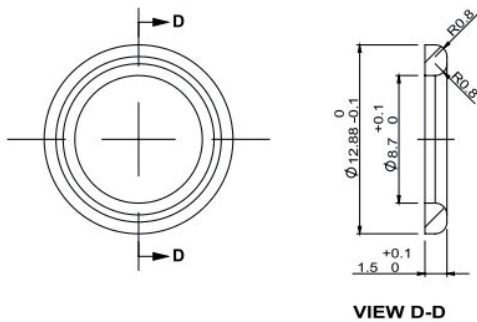
Zero shift due to temperature change	20 psi/100°C 0.15MPa/100°C
Process connection	1/2-20 UNF, Flange
Maximum Overload Pressure Rating	1.5 x FS(<1000bar) 1.2 x FS(>1000bar)
Pressure Units	PSI, Bar, MPa or Kg/cm2
Internal Shunt Calibration	80% FSO
Diaphragm	17-4PH, Inconel718, C276
Diaphragm coating	TiAIN
Electrical Connection	1/2NPT leading wire, 6PIN
Max Torque	30Nm(22lbf ft)
Temperature sensor	E,J,K type or Pt100
protection	IP65
Explosion proof certification	Exiall CT4,Exiall CT6

MECHANICAL DIMENSION

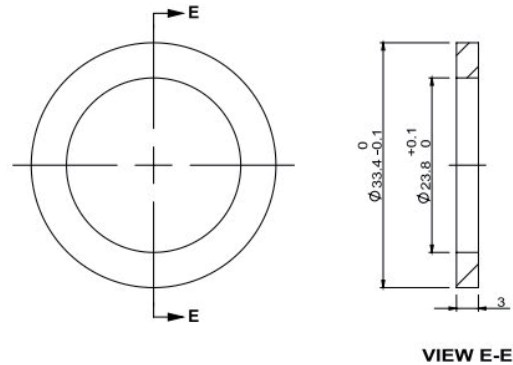
Thread type



Sealing Washer



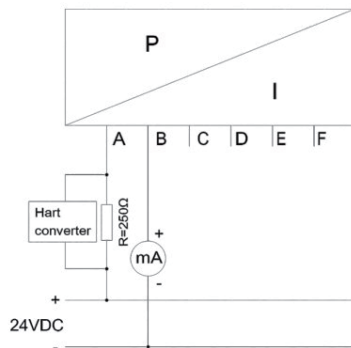
$\varnothing 66.8$ Flange sealing gasket



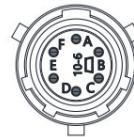
$\varnothing 82.6$ Flange sealing gasket

ELECTRICAL CONNECTION

4...20mA + Hart (2-wire)

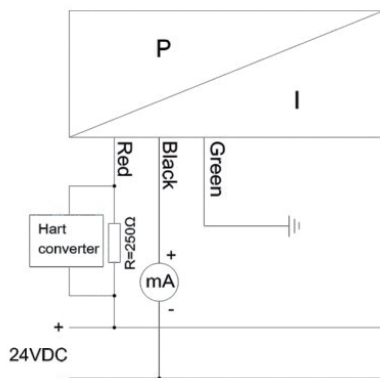


6-pin connector / PT02A-10-6P

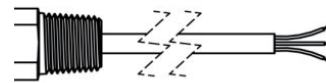


PIN	Function	Wire Color
A	Power +	Red
B	Power -	Black
C		White
D		Green
E		Blue
F		Orange

4...20mA + Hart (2-wire)



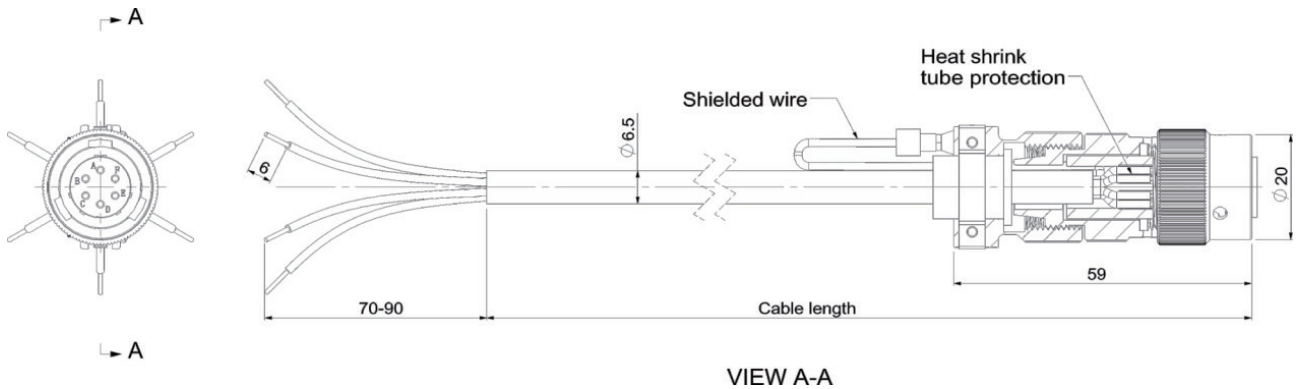
1/2NPT lead wire "X"meters



Function	Wire Color
Power +	Red
Power -	Black
Ground	Green

WIRING NOTE

The cable should be equipped with a shielding layer, with each core wire measuring approximately 0.3 mm^2 and capable of withstanding temperatures of at least 105°C . Each core wire connection must be insulated and protected with heat shrink tubing. The shield wire should be connected to a metal plug-in. Special care must be taken during cable welding to avoid signal transmission errors or potential product damage. It is recommended to use DWEL welded special cable. Any excess wires in the cable should be individually wrapped with insulating tape for safety.



ORDER FORMAT

XPT120B - C1 - M - 7CB - F6 - 6/18 - J - MA

Version	Code
Rigid stem	XPT110B
Rigid stem+Flexible	XPT120B
Flexible + Temperature	XPT130B

Electrical Connection	Code
1/2NPT lead cable X meters	CX
6 pin connector	6P

Accuracy	Code
0.5% FS	M
0.25%FS	H

Pressure range	Code
0~3.5MPa/0~35bar/0~500psi	3.5MPa/35B/500P
0~5MPa/0~50bar/0~750psi	5MPa/50B/750P
0~10MPa/0~100bar/0~1500psi	10MPa/1CB/1M5
0~20MPa/0~200bar/0~3000psi	20MPa/2CB/3M
0~35MPa/0~350bar/0~5000psi	35MPa/3.5CB/5M
0~50MPa/0~500bar/0~7500psi	50MPa/5CB/7M5
0~70MPa/0~700bar/0~10000psi	70MPa/7CB/10M
0~100MPa/0~1000bar/0~15000psi	100MPa/10CB/15M
0~150MPa/0~1500bar/0~20000psi	150MPa/15CB/20M
0~200MPa/0~2000bar/0~30000psi	200MPa/20CB/30M

Code	Process connection
1/2	1/2"-20UNF(Standard)
M14	M14x1.5
M18	M18x1.5
F6	Ø66.8 Flange
F8	Ø82.6 Flange

Code	Customization
Null	Standard version
Special or customized versions available on request	

Code	Output signal
MA	4~20mA
H	4~20mA+HART

Code	Temperature type
Null	No thermocouple
J	J type (Standard)
K	K type
P	Pt100

Code	Flexible stem length
18	460mm(18") Standard
24	610mm(24")
30	760mm(30")
4R	100mm(4") rigid stem*
*Only for XPT110B flange version	

Code	Rigid stem length
6	152mm(6") Standard
9	228mm(9")
12	305mm(12")
15	381mm(15")
18	460mm(18")
Other size on request	

EXAMPLE:

XPT120B-C1-M-7CB-F6-6/18-J-MA

Melt pressure transmitter explosion proof type with thermocouple J, cable lead 1 meter with 1/2NPT thread, 0.5% accuracy, 700 bar pressure range, Ø66.8 flange installation, 152 mm (6") rigid rod, 457 mm (18") flexible stem, 4~20mA output.