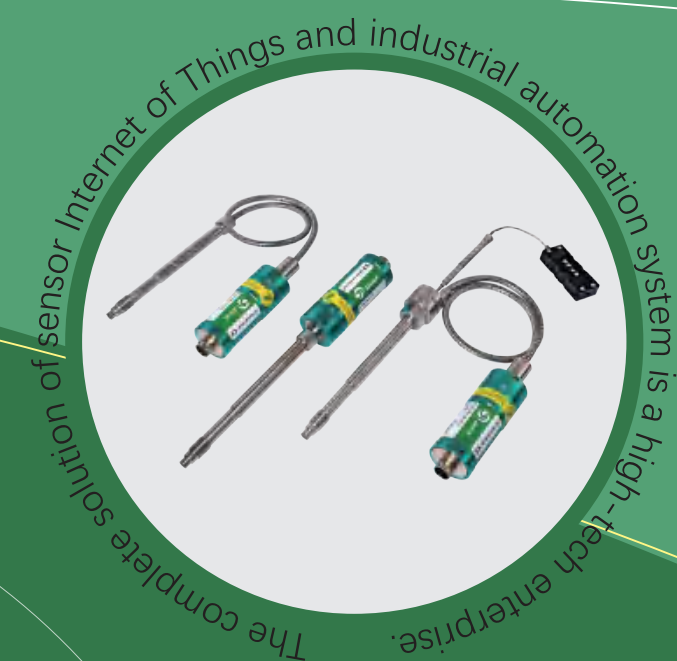




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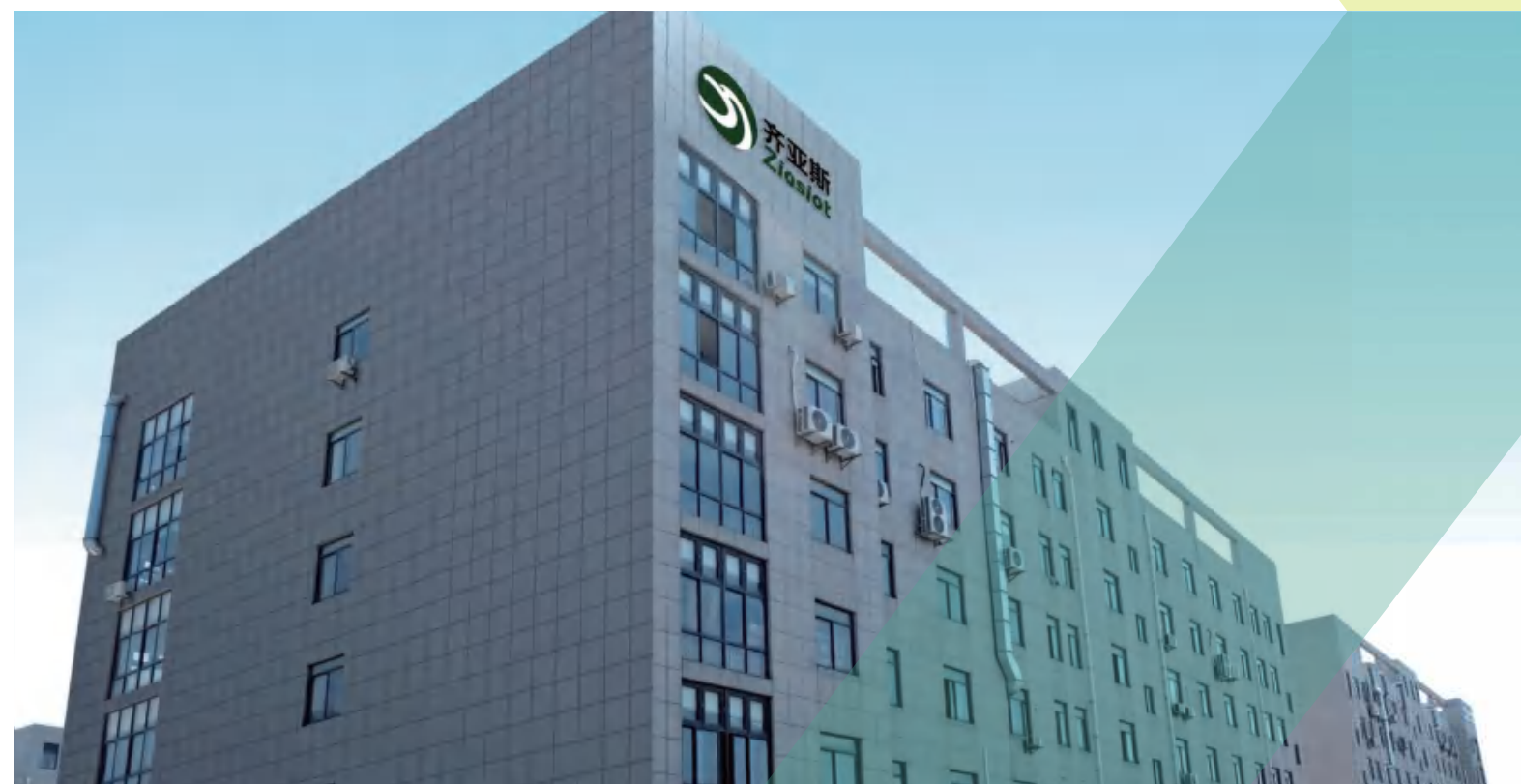
Web: <http://www.ziasiot.com>

Melt Pressure and Temperature Measurement for Extrusion and
Polymer Processing Industries

Company profile >>

As a global technology brand, Ziasiot can provide a variety of sensor products for different industries, and provide professional, reliable and high-performance IOT and digital solutions for the ever-changing intelligent environment. We strive to innovate, advocate environmental protection, adhere to the concept of high quality and integrity, and strive to develop into a global technology manufacturing group with sensor, Internet of Things and urban digital system solutions.

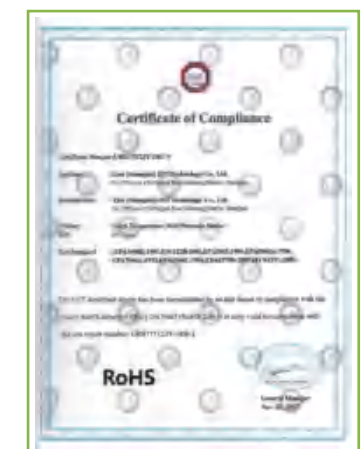
Sensors are vital for urban digitization, Internet of Things, intelligent manufacturing, sensors are vital, and Ziasiot can provide comprehensive application solutions for different industry sectors, including fire, transportation, automotive, industrial, medical, environmental sanitation, household appliances, energy, aviation, aerospace, military, industrial and commercial transportation. Our team members have many years of industry experience and professional knowledge, established a customer-oriented organizational structure, constantly innovating technology, and obtained a number of national patents, which makes us in the field of sensors, Internet of things and urban digital system solutions have been an innovator role. The Ziasiot Technical team has developed an environmentally friendly high temperature melt pressure sensor that redefines the system solution for high temperature melt pressure measurement.



Enterprise certificate >>

《Pressure Transmitter》, 《Pressure Transducer》 etc
Drafting company of National Metrology Verification Regulations and National Metrology Technical Specifications Type Evaluation Outline

Not only the role of an innovator, we are more concerned about every production process.....



沪制01120089号



ISO14001



ISO9001

Product Line

Redefine

Pressure and Temperature Measurement and Control

▶Safety Relay Melt Pressure Transmitter / Transducer -----

01

▶Alloy Filling Melt Pressure Transmitter / Transducer -----

02

▶Remotely Autozero Melt Pressure Transmitter / Transducer -----

03

▶Remotely Autozero &Magnetic zero Melt Pressure Transmitter / Transducer -

04

▶Explosion Proof Melt Pressure Transmitter -----

05

▶Digital Display Melt Pressure Transmitter -----

06

▶Capillary-Exposed Melt Pressure Transmitter -----

07

▶Standard Melt Pressure Transmitter / Transducer -----

08

▶Economical Melt Pressure Transmitter / Transducer -----

09

▶Mechanical Melt Pressure Gauge -----

10

▶Digital Melt Pressure Gauge -----

11

▶Melt Temperature Transmitter / Transducer -----

12

▶Bust Plugs / Rupture Disk -----

13

▶Intelligent Digital Process Indicator -----

14

▶Intelligent PID Controller -----

15

Safety Relay Series PL'c'

>> Melt Pressure Transmitter / Transducer

—PT190/PT192/PT193



PT190 Rigid Stem

PT192 Rigid+Flexible Stem

PT193 with Thermocouple

Description

This series adapts TI series high-performance digital chips,the circuit design is based on SIL2, PL'c' safety performance standards. The range limit is controlled through the relay output to ensure the safety of the extrusion equipment and production line, and effectively reduce the impact of damage and unpredictable personal safety accidents on the equipment due to pressure overload.

Product Feature

- SIL2 and PL'c' rating

• Auto zero via shorting 2pins together

• Digital-analog integrated circuit design, super anti-interference

Technical Data

PT190/PT192/PT193		
Pressure Range	0~35bar;0~2000bar	0~100bar;0~2000bar
Accuracy	±0.5%F.S、±0.25%F.S	
Over load Pressure	1.5FSO	
Bridge Resistance	350ΩWheatstone bridge	
Power	15 ~ 36Vdc	6 ~ 12Vdc
Output Signal	4 ~ 20mA	3.33mV/V
Relay Contact Performance	5 ~ 220Vdc, 1A, 0.2%FSO	
Relay Output	Open	Output percent 10%,20%...100%
Load Resistance (Ω)	< 500Ω	——
Calibration	80%FSO	
Process Connection	M14×1.5、1/2-20UNF、M18×1.5	
Insulation Resistance (50Vdc)	1000MΩ	
Diaphragm Material	17-4PH、inconel718、C276	
Diaphragm max temp	400℃	
Film Material	TiAlN	
E-connection	7-pin connector(Standard), 8-pin connector	
Electrical Environment temp	-20℃ ~ 85℃	
Thermocouple	J Type,E Type,K Type,pt100	
Protection Degree	IP65	
Installation torque	< 30Nm	
Filling Material	Alloy-filling or Mercury filling	

Ordering guide

Serie No	PT	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X
Product type	Rigid Stem	190																		
	Rigid+flexible stem	192																		
	With thermocouple	193																		
Pressure Unit	MPa			--																
	bar			B																
	psi			P																
Pressure range	3.5MPa 35bar 500psi				5C															
	10MPa 100bar 1500psi				1.5M															
	20MPa 200bar 3000psi				3M															
	35MPa 350bar 5000psi				5M															
	50MPa 500bar 7500psi				7.5M															
	70MPa 700bar 10000psi				10M															
	100MPa 1000bar 15000psi				15M															
	200MPa 2000bar 30000psi				30M															
Process connection	1/2-20UNF				1/2															
	M14×1.5				M14															
	M18×1.5				M18															
Rigid stem length	6inch (152mm)					6														
	9inch (229mm)					9														
	12.5inch (318mm)					12														
	15inch (381mm)					15														
	18inch (460mm)					18														
Flexible stem length	18inch (460mm)					/18														
	24inch (600mm)					/24														
	30inch (760mm)					/30														
Output signal	4~20mA 7-pin connector (p/n 62IN-5016-10-7P-4-M)(AMPHENOL)						S3													
	4~20mA 8-pin connector (p/n PT02A-10-8P)						S6													
	3.33mV/V 8-pin connector (p/n PT02A-10-8P)						S8													
	4~20mA 8-pin connector (p/n M16 DIN/EN45326) (Binder)						S9													
Thermocouple	J Type						J													
	K Type						K													
	Pt100						RTD1													
Rely alarm	70% rely output						GC7													
	80% rely output						GC8													
	90% rely output						GC9													
	100% rely output						GC10													
Filling medium	Mercury filling (Standard)							--												
	Alloy filling							EP												
Accuracy	0.50%								--											
	0.25%								2A											
Diaphragm	17-4PH (Standard)								--											
	Inconel718 (Anti-corrosive)								I7											
	C276 (Anti-corrosive)								C2											

Alloy Filling Series

>> Melt Pressure Transmitter / Transducer

—PT170/PT172/PT173



PT170 Rigid Stem

PT172 Rigid+Flexible Stem

PT173 with Thermocouple

Description

This series adopts patented environmentally friendly alloy filling medium and upgraded version of AFT vacuum filling technology, which are safe and non-toxic, high temperature resistance, and stable performance.It is suitable for basic process control of clean materials such as sheet, composite material, film, pipe, food packaging, medical packaging, etc.

Product Feature

- Max temp 400℃
- SIL2,CE and RoHS
- AFT technology environment-friendly alloy medium filling
- One-key to reset zero,easy on-site debugging;auto-zero optional

Technical Data

PT170/PT172/PT173			
Pressure Range	0 ~ 35bar;0 ~ 2000bar		0 ~ 100bar;0 ~ 2000bar
Accuracy	±0.5 %F.S、 ±0.25 %F.S		
Over load Pressure	1.5FSO		
Bridge Resistance	350ΩWheatstone bridge		
Output Signal	4 ~ 20mA	0 ~ 10Vdc、 0 ~ 5Vdc	3.33mV/V
Power	9 ~ 36Vdc (Standard24Vdc)	18 ~ 36Vdc	6 ~ 12Vdc (Standard10Vdc)
Load Resistance (Ω)	< (U-9) /0.02	> 10K	——
Calibration	80%FSO		
Process Connection	M14×1.5、 1/2-20UNF、 M18×1.5		
Insulation Resistance(50Vdc)	1000MΩ		
Diaphragm Material	17-4PH、 inconel718、 C276		
Diaphragm max temp	400℃		
Film Material	TiAlN		
E-connection	6-pin connector (Standard)、 8-pin connector(Standard)		
Electrical Environment temp	-25℃ ~ 85℃		
Thermocouple	J Type,E Type,K Type,pt100		
Protection degree	IP65		
Installation torque	< 30Nm		
Filling Material	Alloy-filling		

Ordering guide

Serie No	PT	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X																
Product type	Rigid Stem	170																																		
	Rigid+flexible stem	172																																		
	With thermocouple	173																																		
Pressure Unit	MPa	--																																		
	bar	B																																		
	psi	P																																		
Pressure range	3.5MPa 35bar 500psi	5C																																		
	10MPa 100bar 1500psi	1.5M																																		
	20MPa 200bar 3000psi	3M																																		
	35MPa 350bar 5000psi	5M																																		
	50MPa 500bar 7500psi	7.5M																																		
	70MPa 700bar 10000psi	10M																																		
	100MPa 1000bar 15000psi	15M																																		
	200MPa 2000bar 30000psi	30M																																		
Process connection	1/2-20UNF	1/2																																		
	M14×1.5	M14																																		
	M18×1.5	M18																																		
Rigid stem length	6inch (152mm)	6																																		
	9inch (229mm)	9																																		
	12.5inch (318mm)	12																																		
	15inch (381mm)	15																																		
	18inch (460mm)	18																																		
Flexible stem length	18inch (460mm)	/18																																		
	24inch (600mm)	/24																																		
	30inch (760mm)	/30																																		
Output signal	4~20mA(Auto zero)	MA																																		
	4~20mA(One key to reset zero)	KA																																		
	0~10Vdc(Auto zero)	10V																																		
	0~10Vdc(One key to reset zero)	KV																																		
	3.33mV/V	MV																																		
E-connection	6-pin aviation Connector (p/n PT02A-10-6P)	--																																		
	8-pin aviation Connector (p/n PT02A-10-8P)	8P																																		
Thermocouple	J Type	J																																		
	K Type	K																																		
	E Type	E																																		
	Pt100	RTD1																																		
Accuracy	0.50%	--																																		
	0.25%	2A																																		
Diaphragm	17-4PH (Standard)	--																																		
	inconel718 (anti-abrasive)	I7																																		
	C276 (Anti-corrosive)	C2																																		

Remotely Autozero Series

Melt Pressure Transmitter / Transducer

—PTED/PTER/PTES



PTED Rigid Stem

PTER Rigid+Flexible Stem

PTES with Thermocouple

Description

PTED/PTER/PTES series adopt imported stainless steel materials, core elements and digital mode circuit design. Realizing sensor linear compensation through digital program. Remote autozero via shorting two pins together. Comply with SIL2, CE safety performance standards. High precision, high stability, low temperature drift and other performance characteristics.

Product Feature

- Several amplified signal output are optional
- Remotely autozero
- Good stability and anti-interference ability
- Internal 80%

Technical Data

PTED/PTER/PTES		
Pressure Range	0~35bar;0~2000bar	0~100bar;0~2000bar
Accuracy	±0.5%F.S、±0.25%F.S	
Over load Pressure	1.5FSO	
Bridge Resistance	350ΩWheatstone bridge	
Power	12 ~ 36Vdc (Standard24Vdc)	10Vdc
Output Signal	4 ~ 20mA	0 ~ 10Vdc 0 ~ 5 Vdc 3.33mV/V
Load Resistance (Ω)	< (U-12) /0.02	> 10K
Calibration	80%FSO	
Process Connection	M14×1.5、1/2-20UNF、M18×1.5	
Insulation Resistance (50Vdc)	1000MΩ	
Diaphragm Material	17-4PH、inconel718、C276	
Diaphragm max temp	400℃	
Film Material	TiAlN	
E-connection	6-pin connector(Standard),8-pin connector	
Electrical Environment temp	-20℃ ~ 85℃	
Thermocouple	J Type,E Type,K Type,pt100	
Protection degree	IP65	
Installation torque	< 30Nm	
Filling Material	Mercury filling	

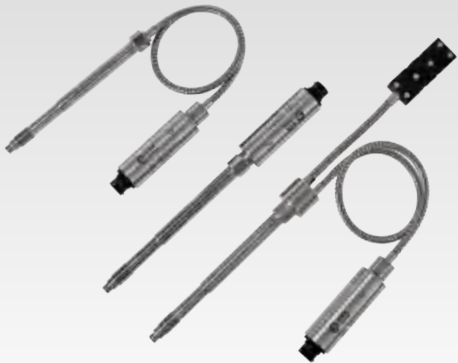
Ordering guide

Serie No	PTE	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X							
Product type	Rigid Stem	D																							
	Rigid+flexible stem	R																							
	With thermocouple	S																							
Pressure Unit	MPa		--																						
	bar		B																						
	psi		P																						
Pressure range	3.5MPa 35bar 500psi					5C																			
	10MPa 100bar 1500psi					1.5M																			
	20MPa 200bar 3000psi					3M																			
	35MPa 350bar 5000psi					5M																			
	50MPa 500bar 7500psi					7.5M																			
	70MPa 700bar 10000psi					10M																			
	100MPa 1000bar 15000psi					15M																			
	200MPa 2000bar 30000psi					30M																			
Process connection	1/2-20UNF							1/2																	
	M14×1.5							M14																	
	M18×1.5							M18																	
Rigid stem length	6inch (152mm)								6																
	9inch (229mm)								9																
	12.5inch (318mm)								12																
	15inch (381mm)								15																
	18inch (460mm)								18																
Flexible stem length	18inch (460mm)									/18															
	24inch (600mm)									/24															
	30inch (760mm)									/30															
Output signal	4~20mA												MA												
	0~10Vdc												10V												
	3.33mV/V												MV												
E-connection	6-pin aviation Connector														--										
	8-pin aviation Connector (Interchange with p/n 711600)														8P										
	GO 6 FAV M														6D										
Thermocouple	J Type															J									
	K Type															K									
	E Type															E									
	Pt100															RTD1									
Accuracy	0.50%																	--							
	0.25%																	2A							
Diaphragm	17-4PH (Standard)																			--					
	inconel718 (anti-abrasive)																			I7					
	C276 (Anti-corrosive)																			C2					

Remotely Autozero & locally Magnetic Zero Series

>> Melt Pressure Transmitter / Transducer

—PTOG1/PTOG2/PTOG3



PTOG1 Rigid Stem

PTOG2 Rigid+Flexible Stem

PTOG3 with Thermocouple

Description

PTOG series adopt high-performance core components, digital-analog integrated circuit design, linear compensation can be achieved through theprogram, and high measurement accuracy can be obtained. Comply withSIL2 safety performance standards. This series can reset to zero in two ways:remotely via shorting two pins together and locally via magnetic contacts.

Product Feature

- Remotely autozero and locally magnetic zero
- 80% Internal calibration
- Mercury free filling and relay output is optional

Technical Data

PTOG1/PTOG2/PTOG3			
Pressure	0 ~ 35bar ; 0 ~ 2000bar		
Accuracy	±0.5%F.S、±0.25%F.S		
Overload pressure	150% FSO		
Bridge resistance	350ΩWheatstone bridge		
Ouptut Signal	4 ~ 20mA	0 ~ 10Vdc、0 ~ 5Vdc	3.33mV/V
Power	12 ~ 36Vdc (Standard24Vdc)	6 ~ 12Vdc (Standard10Vdc)	
Load Resistance (Ω)	< (U-12) /0.02	> 10K	——
Calibration	80%FSO		
Process Connection	M14×1.5、1/2-20UNF、 M18×1.5		
Insulation Resistance	1000MΩ @50Vdc		
Diaphragm Material	17-4PH、inconel718、 C276		
Diaphragm max temp	400℃		
Film Material	TiAIN		
E-connection	6-pin connector(Standard)、 8-pin connector		
Electrical Environment temp	-20℃ ~ 85℃		
Thermocouple	J Type,E Type,K Type,pt100		
Protection degree	IP65		
Installation torque	< 30Nm		
Filling Material	Alloy-filling or Mercury filling		

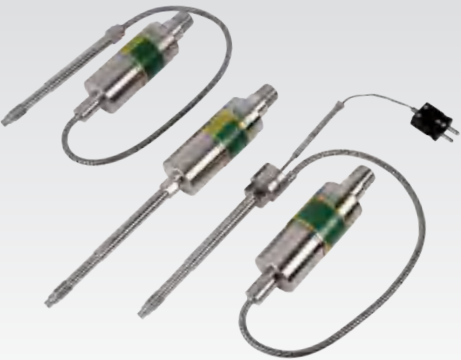
Ordering guide

Serie No	PTOG		X	-	X	-	X	X	X	-	X	-	X	-	X	-	X	
Product type	Rigid Stem		1															
	Rigid+flexible stem		2															
	With thermocouple		3															
	Naked		4															
Pressure Unit	MPa			--														
	bar			B														
	psi			P														
Pressure range	3.5MPa 35bar 500psi					5C												
	10MPa 100bar 1500psi					1.5M												
	20MPa 200bar 3000psi					3M												
	35MPa 350bar 5000psi					5M												
	50MPa 500bar 7500psi					7.5M												
	70MPa 700bar 10000psi					10M												
	100MPa 1000bar 15000psi					15M												
	200MPa 2000bar 30000psi					30M												
Process connection	1/2-20UNF						1/2											
	M14×1.5						M14											
	M18×1.5						M18											
Rigid stem length	6inch (152mm)							6										
	9inch (229mm)							9										
	10inch (254mm)							10										
	12.5inch (318mm)							12										
	15inch (381mm)							15										
	18inch (460mm)							18										
Flexible stem length	18inch (460mm)								/18									
	24inch (610mm)								/24									
	30inch (760mm)								/30									
Output signal	4-20mA										MA							
	0-10V										10V							
	3mV/V										MV							
Thermocouple	J Type												J					
	K Type												K					
	Pt100												RTD1					
Accuracy	0.50%														--			
	0.25%														2A			
Diaphragm	17-4PH (Standard)																--	
	inconel718 (Anti-abrasive)																I7	
	C276 (Anti-corrosive)																C2	

Explosion Proof Series

>>Melt Pressure Transmitter / Transducer

—PT110/PT120/PT130FB



PT110FB Rigid Stem PT120FB Rigid+Flexible Stem PT130FB with Thermocouple

Description

This series is an intelligent 4...20 mA Hart protocol melt pressure transmitter design for explosive hazardous sites. It uses all stainless steel welding structure, thread and flange installation mode are optional. High performance core components can helpful in its high measurement accuracy. It is widely used in melt pressure process measurement control of high precision polymer extrusion equipment, production line and laboratory equipment and laboratory instruments

Product Feature

- Fully welded housing
- 4-20mA, 4-20mA+Hart output
- Several flange connection optional
- Ideal for hazardous locations

Technical Data

PT110/PT120/PT130FB	
Pressure Range	0 ~ 35bar;0 ~ 2000bar
Accuracy	±0.5%F.S、±0.25%F.S
Over load Pressure	1.5FSO
Bridge Resistance	350ΩWheatstone bridge
Power	12 ~ 30Vdc (Standard24Vdc)
Output Signal	4-20mA; 4-20mA+Hart7
Load Resistance (Ω)	< (U-12) /0.02
Explosion-proof grade	Exia II CT4、Exia II CT6
Process Connection	1/2-20UNF、Flange connection
Insulation Resistance (50Vdc)	1000MΩ
Diaphragm Material	17-4PH、inconel718、C276
Diaphragm max temp	400℃
Film Material	TiAIN
E-connection	1/2NPT leading wire、6-pin connector(Standard)
Electrical Environment temp	-40℃~85℃
Thermocouple	J Type,E Type,K Type,pt100
Protection degree	IP65; IP66
Installation torque	< 30Nm
Filling Material	Mercury filling

Ordering guide

Serie No	PT	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X					
Product type	Rigid Stem	110FB																					
	Rigid+flexible stem	120FB																					
	With thermocouple	130FB																					
Pressure Unit	MPa			--																			
	bar			B																			
	psi			P																			
Pressure range	1.75MPa 17.5bar 250psi					2.5C																	
	3.5MPa 35bar 500psi					5C																	
	10MPa 100bar 1500psi					1.5M																	
	20MPa 200bar 3000psi					3M																	
	35MPa 350bar 5000psi					5M																	
	50MPa 500bar 7500psi					7.5M																	
	70MPa 700bar 10000psi					10M																	
	100MPa 1000bar 15000psi					15M																	
	200MPa 2000bar 30000psi					30M																	
Process connection	1/2-20UNF						1/2																
	M14×1.5						M14																
	φ66.8 Flange						6F																
	φ82.6 Flange						8F																
	M18×1.5						M18																
Rigid stem length	5inch (127mm) (8F Standard length)								5														
	6inch (152mm) (6F Standard length)								6														
	9inch (229mm)								9														
	12.5inch (318mm)								12														
	15inch (381mm)								15														
	18inch (460mm)								18														
Flexible stem length	18inch (460mm)									/18													
	24inch (600mm)									/24													
	30inch (760mm)									/30													
	4inch (100mm) Rigid stem-Only for PT110FB flange 6F&8F									/4R													
Output signal	4~20mA+Hart												H										
E-connection	1/2-14NPT lead wire " X " meters																		Mx				
	6-pin connector																		6P				
Thermocouple	J Type																J						
	K Type																K						
	E Type																E						
	Pt100																RTD1						
Accuracy	0.50%																	--					
	0.25%																	2A					
Diaphragm	17-4PH (Standard)																		--				
	inconel718 (Anti-abrasive)																		I7				
	C276 (Anti-corrosive)																		C2				

Digital Display Series

Melt Pressure Transducer

—PT115/PT125/PT135



PT115 Rigid Stem

PT125 Rigid+Flexible Stem

PT135 with Thermocouple

Description

This series is an intelligent 4...20 mA Hart protocol melt pressure transmitter possess the special film and high temperature wear-resistant coating make it work normally at 400 °C high temperature, using the standard threaded connection method to install, full 4-digit display, relay output is optional. High stability and long service life. The intrinsically safe melt pressure transmitter is designed for hazardous explosion-proof areas and remote control, and the wireless module can be customized.

Product Feature

- Special lamination film coating
- IP65 protection degree
- 4-digit LED display
- ExiaII CT4 intrinsically safe explosion-proof certification

Technical Data

PT115/PT125/PT135	
Pressure Range	0 ~ 35bar;0 ~ 2000bar
Accuracy	±0.5%F.S、 ±0.25 %F.S
Over load Pressure	1.5FSO
Bridge Resistance	350ΩWheatstone bridge
Power	12 ~ 30Vdc (Standard24Vdc)
Output Signal	4 ~ 20mA+hart
Load Resistance (Ω)	< (U-12) /0.02
Explosion-proof Grade	Exia II CT4、 Exia II CT6
Process Connection	1/2-20UNF、 Flange connection
Insulation Resistance (50Vdc)	1000MΩ
Diaphragm Material	17-4PH、 inconel718、 C276
Diaphragm max temp	400℃
Film Material	TiAlN
E-connection	M20*1.5、 1/2NPT Waterproof connector
Electrical Environment temp	-20℃ ~ 85℃
Thermocouple	J Type,E Type,K Type,pt100
Protection degree	IP65
Installation torque	< 30Nm
Filling Material	Mercury filling

Ordering guide

Serie No	PT	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X
Product type	Rigid Stem	PT115FX																		
	Rigid+flexible stem	PT125FX																		
	With thermocouple	PT135FX																		
Pressure Unit	MPa			--																
	bar			B																
	psi			P																
Pressure range	3.5MPa 35bar 500psi				5C															
	10MPa 100bar 1500psi				1.5M															
	20MPa 200bar 3000psi				3M															
	35MPa 350bar 5000psi				5M															
	50MPa 500bar 7500psi				7.5M															
	70MPa 700bar 10000psi				10M															
	100MPa 1000bar 15000psi				15M															
	200MPa 2000bar 30000psi				30M															
Process connection	1/2-20UNF				1/2															
	M14×1.5				M14															
	M18×1.5				M18															
Rigid stem length	6inch (152mm)				6															
	9inch (229mm)				9															
	12.5inch (318mm)				12															
	15inch (381mm)				15															
	18inch (460mm)				18															
Flexible stem length	18inch (460mm)				/18															
	24inch (600mm)				/24															
	30inch (760mm)				/30															
Output signal	4-20mA+hart																		H	
Cable Length	No Cable																	--		
	Leading wire "X" meters (Standard M20 waterproof connector)																	Mx		
	8-pin aviation Connector (cross Gefran)																	8P1		
Thermocouple	J Type																	J		
	K Type																	K		
	E Type																	E		
	Pt100																	RTD1		
Accuracy	0.50%																	--		
	0.25%																	2A		
Diaphragm	17-4PH (Standard)																		--	
	inconel718 (anti-abrasive)																		I7	
	C276 (Anti-corrosive)																		C2	

Capillary-Exposed Series

>>Melt Pressure Transmitter / Transducer

—PT180



Description

PT180 series adopts special cavity type exposed structure design, with high precision and high response speed. Used for special positions of small space such as chemical fiber equipment, rubber and plastic machinery and mold cavity.

Product Feature

- Precision is better than $\pm 0.5\%FS$
- 80% internal calibration
- Exposed structure
- Good stability and repeatability

Technical Data

PT180			
Pressure Range	0~35bar;0~2000bar		0~100bar;0~2000bar
Accuracy	±0.5%F.S、 ±0.25%F.S		
Over load Pressure	1.5FSO		
Bridge Resistance	350ΩWheatstone bridge		
Power	9-36Vdc	18-36Vdc	6-12Vdc(10V is standard)
Output Signal	4 ~ 20mA	0 ~ 10Vdc 0 ~ 5 Vdc	3.33mV/V
Load Resistance (Ω)	< (U-9) /0.02	> 10K	——
Calibration	80%FSO		
Process Connection	1/2-20UNF		
Insulation Resistance (50Vdc)	1000MΩ		
Diaphragm Material	17-4PH、inconel718、C276		
Diaphragm max temp	400℃		
Film Material	TiAlN		
E-connection	6-pin connector(Standard),8-pin connector		
Electrical Environment temp	-20℃ ~ 85℃		
Protection degree	IP65		
Installation torque	< 30Nm		
Filling Material	Mercury filling		

Ordering guide

Serie No	PT180	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X				
Pressure Unit	MPa	--																		
	bar	B																		
	psi	P																		
Pressure range	10MPa 100bar 1500psi			1.5M																
	20MPa 200bar 3000psi			3M																
	35MPa 350bar 5000psi			5M																
	50MPa 500bar 7500psi			7.5M																
	70MPa 700bar 10000psi			10M																
	100MPa 1000bar 15000psi			15M																
	200MPa 2000bar 30000psi			30M																
	Process connection	1/2-20UNF															1/2	0	10	/18
Flexible-exposed length	0inch (0mm)																			
	10inch (254mm)																			
Flexible stem length	18inch (460mm)																			
	24inch (600mm)																			
	30inch (760mm)																			
Output signal	4~20mA																			
	0~10Vdc																			
	3.33mV/V																			
E-connection	6-pin aviation Connector (p/n PT02A-10-6P)																			
	8-pin aviation Connector (p/n PT02A-10-8P)																			
Accuracy	0.50%																			
	0.25%																			
Diaphragm	17-4PH (Standard)															--				
	inconel718 (Anti-abrasive)															I7				
	C276 (Anti-corrosive)															C2				

Standard Series

>>Melt Pressure Transmitter / Transducer

—PT112/PT123/PT133(B)



PT112 Rigid Stem

PT123 Rigid+Flexible Stem

PT133 with Thermocouple

Description

This series is a kind of accurate measuring equipment,which adopts high performance core element, digital-analog integrated circuit design, realizes linear compensation through program, and can obtain 0.5% FSO measurement accuracy. Used for pipe extrusion, sheet extrusion, recycled plastics, recycled plastics and other extrusion processes with simple control

Product Feature

- Accuracy 0.5%FS
 - 80% internal calibration
- Stainless steel sealing
 - Good stability and repeatability

Technical Data

PT112/PT123/PT133(B)			
Pressure Range	0~100bar;0~2000bar		0~35bar;0~2000bar
Accuracy	±0.5%F.S		
Over load Pressure	1.5FSO		1.5FSO
Bridge Resistance	350ΩWheatstone bridge		
Power	9 ~ 36Vdc (Standard24Vdc)	18 ~ 36Vdc	6-12Vdc (10Vdc Standard)
Output Signal	4 ~ 20mA	0 ~ 10Vdc,0 ~ 5Vdc	3.33mV/V
Load Resistance (Ω)	——	< (U-9) /0.02	> 10K
Calibration	80%FSO		
Process Connection	M14×1.5、1/2-20UNF、M18×1.5		
Insulation Resistance (50Vdc)	1000MΩ		
Diaphragm Material	17-4PH、inconel718、C276		
Diaphragm max temp	300℃		
Film Material	TiAlN		
E-connection	6-pin connector(Standard), 8-pin connector		
Electrical Environment temp	-20℃ ~ 85℃		
Thermocouple	J Type,E Type,K Type,pt100		
Protection degree	IP65		
Installation torque	< 30Nm		
Filling Material	Mercury filling		

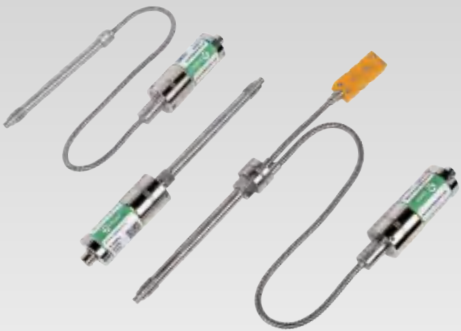
Ordering guide

Serie No	PT	X	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X		
Product type	Rigid Stem	112																	
	Rigid+flexible stem	123																	
	With thermocouple	133																	
Pressure Unit	MPa			--															
	bar			B															
	psi			P															
Pressure range	10MPa 100bar 1500psi			1.5M															
	20MPa 200bar 3000psi			3M															
	35MPa 350bar 5000psi			5M															
	50MPa 500bar 7500psi			7.5M															
	70MPa 700bar 10000psi			10M															
	100MPa 1000bar 15000psi			15M															
	200MPa 2000bar 30000psi			30M															
Process connection	1/2-20UNF					1/2													
	M14×1.5					M14													
	M18×1.5					M18													
Rigid stem length	6inch (152mm) (6F Standard length)						6												
	9inch (229mm)						9												
	12.5inch (318mm)						12												
	15inch (381mm)						15												
	18inch (460mm)						18												
Flexible stem length	18inch (460mm)							/18											
	24inch (600mm)							/24											
	30inch (760mm)							/30											
Output signal	3.33mV/V									--									
	2.5mV/V									2.5MV									
E-connection	6-pin aviation Connector (PT02A-10-6P)										--								
	8-pin aviation Connector (PT02A-10-10P)										8P								
Thermocouple	J Type												J						
	K Type												K						
	E Type												E						
	Pt100												RTD1						
Accuracy	0.50%														--				
	0.25%														2A				
Diaphragm	17-4PH (Standard)															--			
	inconel718 (anti-abrasive)															I7			
	C276 (Anti-corrosive)															C2			

Economical Series

>> Melt Pressure Transmitter / Transducer

—PT111/124/131(B)



PT111(B) Rigid Stem

PT124(B) Rigid+Flexible Stem

PT131(B) with Thermocouple

Description

This series with good stability are easy to install, and are ideal products for on-site display of melt pressure measurement in the extrusion process of pipe extrusion, sheet extrusion, recycled plastics, etc.

Product Feature

- 5-pin electrical connection
- Accuracy +/-0.1% FS
- Cost-effective
- Good stability and repeatability

Technical Data

PT111/124/131(B)			
Pressure Range	0 ~ 35bar;0 ~ 2000bar		0 ~ 100bar;0 ~ 2000bar
Accuracy	±1.0%F.S		
Over load Pressure	1.5FSO		
Bridge Resistance	350Ω Wheatstone bridge		
Output Signal	4 ~ 20mA	0 ~ 10Vdc、0 ~ 5Vdc	2mV/V
Power	9 ~ 36Vdc (Standard24Vdc)	18 ~ 36Vdc	6 ~ 12Vdc (Standard10Vdc)
Load Resistance (Ω)	< (U-9) /0.02	> 10K	——
Calibration	80%FSO		
Process Connection	M14×1.5、1/2-20UNF、M22×1.5		
Insulation Resistance	1000MΩ (50VDC)		
Diaphragm Material	17-4PH		
Diaphragm max temp	300℃		
Film Material	TiAIN		
E-connection	5-pin connector(Standard)		
Electrical Environment temp	-20℃ ~ 85℃		
Thermocouple	J Type,E Type,K Type,pt100		
Protection degree	IP65		
Installation torque	< 30Nm		
Filling Material	Mercury filling		

Ordering guide

Serie No	PT	X	-	X	-	X	-	X	-	X	-	X
Product type	Rigid Stem	111										
	Rigid+flexible stem	124										
	With thermocouple	131										
Pressure range	10MPa 100bar 1500psi			1.5M								
	20MPa 200bar 3000psi			3M								
	35MPa 350bar 5000psi			5M								
	50MPa 500bar 7500psi			7.5M								
	70MPa 700bar 10000psi			10M								
	100MPa 1000bar 15000psi			15M								
Process connection	1/2-20UNF											
	M14×1.5											
	M22×1.5 (Rotatable rigid rod)											
	M18×1.5											
Rigid stem length	6inch (152mm) (6F Standard length)											
	9inch (229mm)											
	12.5inch (318mm)											
	15inch (381mm)											
	18inch (460mm)											
Flexible stem length	18inch (460mm)											
	24inch (600mm)											
	30inch (760mm)											
Thermocouple	J Type											J
	K Type											K
	E Type											E
	Pt100											RTD1

Mechanical Series

Melt pressure gauge

—PG112/PG123/PG133



PG112 Rigid Stem

PG123 Rigid+Flexible Stem

PG133 with Thermocouple

Description

This series is a professional melt pressure measurement product used in the injection molding industry and chemical fiber high temperature environment. The special coated diaphragm and high temperature wear-resistant material coating enable it to work normally at 400 °C. It is installed with a standard threaded connection. Optional analog signal output, with high stability and long service life. It is widely used in the on-site measurement and display of melt pressure in the injection molding, chemical fiber, and rubber industries.

Product Feature

- On-site mechanical pointer display
- Accuracy +/-1.6% FS
- Special diaphragm coating
- IP65 protective level

Technical Data

PG112/PG123/PG133			
Accuracy	±1.6%F.S		
Pressure Range	0-100bar,0-1000bar		
Output Signal	NA	4-20mA	0-10V
Power	NA	9-36VDC	18-36VDC
Load Resistance	NA	(U-9)/0.02Ω	> 10k
Bridge Resistance	NA	350Ω	350Ω
Diaphragm Material	17-4PH		
Diaphragm max temp	MAX 400℃		
Electrical Environment temp	-20 ~ 85℃		
Process Connection	1/2-20UNF、M22×1.5、M14×1.5		
E-connection	NA	5-pin	
Thermocouple	J Type、E Type、K Type、PT100		

Ordering guide

Serie No	PG	X	-	X	-	X	-	X	X	-	X	-	X	-	X
Product type	Rigid stem	112													
	Flexible	123													
	Dual measurement	133													
Pressure range	10MPa 100bar 1500psi			1.5M											
	20MPa 200bar 3000psi			3M											
	25MPa 250bar 3500psi			3.5M											
	35MPa 350bar 5000psi			5M											
	40MPa 400bar 6000psi			6M											
	50MPa 500bar 7500psi			7.5M											
	70MPa 700bar 10000psi			10M											
	100MPa 1000bar 15000psi			15M											
Process connection	1/2-20UMF					1/2									
	M14×1.5					M14									
	M18×1.5					M18									
	M22×1.5					M22									
	G3/8					G3/8									
Rigid stem	6 inches(152mm)							6							
	9 inches(229mm)							9							
	12.5 inches(318mm)							12							
	15 inches(381mm)							15							
	18 inches(460mm)							18							
Flexible	18 inches(460mm)								/18						
	24 inches(610mm)								/24						
	30 inches(760mm)								/30						
Signal output	None							--							
	2mV/V							2MV							
	4~20mA							MA							
	0~10VDC							10V							
	0~5VDC							5V							
Temperature component	J type								J						
	K type								K						
	E type								E						
	three Pt100 RTD								RTD1						
E-Connection	None													--	
	5-PIN standard aviation connector													5P	

Digital Series

Melt pressure gauge

—PG112X/PG123X/PG133X



PG112X Rigid Stem

PG123X Rigid+Flexible Stem

PG133X with Thermoco

Description

This series is professionally used to measure pressure in high-temperature environments, with on-site LED display, no indication error, two-way relay control, and can work normally at a high temperature of 400°C. They are installed with standard threaded connections and have high stability and long service life. It is widely used in precision measurement of melt pressure in injection molding, chemical fiber and rubber industries.

Product Feature

- Φ100mm standard gauge installation
- 4-digit LED display, no indication error
- 2-way control point relay output 220V 3A
- Accuracy grade: 0.5%FS

Technical Data

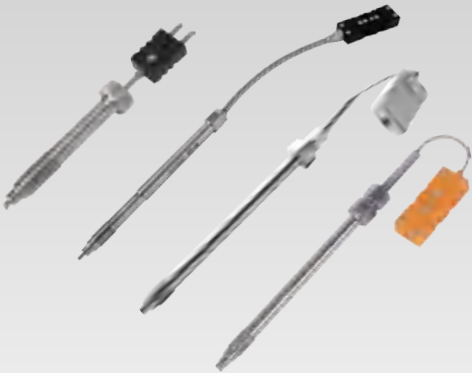
PG112X/PG123X/PG133X	
Accuracy	±0.5%F.S
Pressure	0-35bar, 0-2000bar
Output Signal	4-20mA(relay output optional) 4-20mA (relay output optional)
Power	220VAC15-36VDC
Load Resistance	NA(U-15)/0.02Ω
Bridge Resistance	350Ω350Ω
Diaphragm Material	17-4PH
Diaphragm max temp	Max400℃
Electrical Environment temp	-20 ~ 85℃
Process Connection	1/2-20UNF、M22×1.5、M14×1.5
E-connection	5-pin
Thermocouple	J Type、E Type、K Type、PT100

Ordering guide

Serie No	PG	X	-	X	-	X	-	X	X	-	X	-	X	-	X
Product type	Rigid stem	112X													
	Flexible type	123X													
	Dual pressure&temperature type	133X													
Pressure range	3.5MPa 35bar			5C											
	5MPa 50bar			7.5C											
	7MPa 70bar			1M											
	10MPa 100bar			1.5M											
	20MPa 200bar			3M											
	35MPa 350bar			5M											
	50MPa 500bar			7.5M											
	70MPa 700bar			10M											
	100MPa 1000bar			15M											
	140MPa 1400bar			20M											
	200MPa 2000bar			30M											
Process connection	1/2-20UNF			1/2											
	M14×1.5			M14											
	M18×1.5			M18											
	M22×1.5			M22											
Rigid stem	6 inches (152mm)					6									
	9 inches (229mm)					9									
	12.5 inches (318mm)					12									
	15 inches (381mm)					15									
	18 inches (460mm)					18									
Flexible	18 inches (460mm)					/18									
	24 inches (610mm)					/24									
	30 inches (760mm)					/30									
Temperature component	J type					J									
	K type					K									
	E type					E									
	Pt100 type					RTD1									
Power supply	220VAC					V1									
	24VDC					V2									
Diaphragm material	17-4 PH (Standard diaphragm)												--		
	Hastelloy (Anti-corrosive)												C2		
	Inconel 718 (Anti-abrasive)												I7		
	17-4PH (Thickening diaphragm)												T2		
Filling medium	Standard products													--	
	Environmental friendly alloy filled													B17	

MTT(B) Series

Melt Temperature Transducer



E type K Type J Type Pt100

Description

MTT Series melt temperature sensor is suitable for temperature measurement of melt, fluid, gas, etc. The probe forms are various . While reducing the medium flow resistance, the sensitive part of the probe is completely placed in the measurement medium, with higher measurement accuracy, shorter response time, better reliability and long life etc

Product Feature

- Temperature Measurement Ranging from 0-400℃
- 4-20mA output is optional
- Different thermocouple and RTD are optional
- Different Shapes of tip is available

Technical Data

MTT(B)	
Accuracy	Class A
Temperature	0-700℃
Material	SUS304
Withstand voltage rating	Max70MPa
Process connection	1/2-20UNF、M18×1.5、M14×1.5
Probe form	Flat、Conical type、Cylindrical type、Blade shape
Temp measurement terminal form	Insulation
E-connection	Thermocouple、Leading wire、7-pin aviation connector

Ordering guide

Serie No	MTT	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X
Temperauture type	Thermocouple J type	J																
	Thermocouple E type	E																
	Thermocouple K type	K																
	2-wire PT100	RTD																
	3-wire PT100	RTD1																
	4-wire PT100	RTD7																
	2-branch 2-wire PT100	RTD2																
	2-branch 3-wire PT100	RTD10																
	2-branch 4-wire PT100	RTD11																
Process connection	1/2-20UNF		1/2															
	M14×1.5		M14															
	M16×1.5		M16															
	M18×1.5		M18															
Rigid stem length (L2)	76mm				3													
	102mm				4													
	152mm				6													
	203mm				8													
	228mm				9													
	318mm				12													
	Other length				Xmm													
Flex stem length (L2)	102mm				4													
	152mm				6													
	460mm				18													
	760mm				30													
	Other length				Xmm													
Cable housing	None							FN										
	Metal bellow							FY										
	Stainless bellow							FT										
Tip type	Blade type									L								
	Oval type									T								
	Round type (diameter xmm)									Rx								
	Conical type									C								
	Flat type									F								
Tip length(L3)	Length Xmm (Other standard length are 5mm,10mm,15mm,Standard flat type is L0)										Lx							
Tip material	SUS304										--							
	SUS316										3L							
	Hastelloy-C276										C2							
E-connection	Leading wire (Y teminal)														W			
	Leading wire (Round teminal)														W1			
	Thermocouple plug board														P			
	M16 connector (7-PIN)														T			
	Explosion-proof junction box														J			
	Plug-in locking connector														B			
Rigid stem type	Standard fixed rigid stem																FI	
	Standard rotatable rigid stem																HD	
	Fixed rigid stem with thread lengthened type (Thread length xmm)																Cx	
	Rotatable rigid stem with Y type																YH	
	Fixed rigid stem with Y type																YF	

BP224 Series

Bust Plugs (Rupture Disk)

—BP224



Description

BP224 series burst plugs are made by 17-4PH in use of pressure releasing for emergency circumstances. The diaphragm will burst while pressure overloaded to protect the machine and operator from explosion damage

Product Feature

- Burst pressure range: 0…2500psi to 0…15000psi
- Low installation and maintenance costs
- Reliable protection of personnel and machinery
- Robust sensing element
- Designed for extrusion applications

Technical Data

BP224	
Pressure range	0…2500psi to 0…15000psi
Temperature range	0…400℃
Material	304 stainless steel
Material	SUS304
Process connection	1/2-20UNF、M18×1.5、M14×1.5 etc

Ordering guide

Serie No	BP224	-	X	-	X	-	X	-	X	-	X	-	X							
Product type	Standard	--		2.5M 3M 3.5M 5M 7.5M 8.5M 9.5M 10M 12.5M 15M	1/2 M14 5/8 M18	1.8 2.5 3 4 6 7 8 9 12 xmm	-- L25.4 L29 L41 L53 L58 LX	N S M K 1/4NPT												
	Y Type	Y																		
Pressure range	17MPa 170bar 2500psi																			
	20MPa 200bar 3000psi																			
	25MPa 250bar 3500psi																			
	35MPa 350bar 5000psi																			
	50MPa 500bar 7500psi																			
	60MPa 600bar 8500psi																			
	65MPa 650bar 9500psi																			
	70MPa 700bar 10000psi																			
	85MPa 850bar 12500psi																			
	100MPa 1000bar 15000psi																			
Process connection	1/2-20UMF																			
	M14×1.5																			
	5/8-11UNC																			
	M18×1.5																			
Rigid stem length	46mm						xmm													
	64mm																			
	76mm																			
	102mm																			
	152mm																			
	178mm																			
	203mm																			
	228mm																			
	317.5mm																			
	xmm																			
Thread length	Standard																			
	25.4mm																			
	29mm																			
	41mm																			
	53mm																			
	58mm																			
	xmm																			
Locking type and ploymer discharge options	Hex Nut																			
	Slotted Nut																			
	Milling Hex																			
	Hex with Alarm																			
	Hex 1/4NPT Fitting																			

ZP Series

Digital Process Indicator



Description

This series uses single-chip microcomputer as the control core, adopts SMT patch technology, switching power supply, control parameter self-tuning algorithm, sensor nonlinear high-precision change, electromagnetic compatibility design, high measurement and control accuracy, and strong anti-interference. Pressure single display, temperature and pressure dual display are optional, multiple input signals, output signals, multiple appearance structures, small size, light weight, low power consumption etc.It is widely used in pressure and temperature display and automatic control in hydraulic, petroleum, plastic, rubber, printing and dyeing, textile and other industries. It can be used with melt pressure sensor.

Dimension

- ZP90/ZP91 96*96
- ZP80/ZP81 48*96
- ZP60/ZP61 96*48

Technical Data

ZP Series	
Display Range	0.100~999.9 (The decimal point can be shifted)
Accuracy	+/-0.2%FS
Power	85~265Vdc; 24Vdc
Output Signal	4-20mA;0-20mA;0-5V;0-10V;RS485
Input Signal	2mV/V;3.33mV/V;4-20mA;0-10V
Temp input	E,K,J,PT100 (only for ZP901,ZP801,ZP601)
Resolution	0.001
Working Temp	-10~50℃

Ordering guide

Serie No	ZP		X	-	X	-	X	-	X	-	X
Basic form	Intelligent Digital Indicator										
Product Type	Transverse 96*48 Pressure		90								
	Transverse 96*48 Pressure&Temperature		80								
	Vertical 48*96 Pressure		60								
	Vertical 48*96 Pressure&Temperature		91								
	Square 96*96 Pressure		81								
	Square 96*96 Pressure&Temperature		61								
Power Supply	85 ~ 265VAC				V1						
	24Vdc				V2						
Pressure Range	XMPa						Mx				
Input Signal	1.5mV/V								S1		
	2mV/V								S2		
	3.33mV/V								S3		
	4 ~ 20mA								S4		
	0 ~ 10Vdc								S5		
	0 ~ 5Vdc								S6		
Output Signal	2 way replay output									H1	
	2 way replay output + 1way replay output									H2	
	2 way replay output + 4-20mA output									H3	
	2 way replay output + 0-10V output									H4	
	2 way replay output + 0~5V output									H5	
	2 way replay output + RS485 Communication									H6	
	2 way replay output + RS232 Communication2									H7	

Intelligent PID Series



Intelligent PID Controller

—Z90D/80D/Z60D



Description

This series is a single-loop intelligent PID regulator with superior performance and high reliability, which is suitable for conventional temperature control or automatic control of multiple industrial process quantities such as flow, pressure, and liquid level. Various outputs such as current, voltage, SSR drive, single/three-phase thyristor shifting/zero crossing, relay, etc. can be used to realize quantitative, programming curve and other control methods.

Dimension

- Z90D 96*96
- Z80D 48*96
- Z60D 96*48

Technical Data

Z90D/Z80D/Z60D	
Display Range	0.100~999.9 (The decimal point can be shifted)
Accuracy	+/-0.2%FS
Power	110-240Vdc; 20-32Vdc
Output Signal	4-20mA;0-5V;0-10V
Input Signal	2mV/V;3.33mV/V;4-20mA;0-10V;0-5V
Comunication	RS485,RS232,Mod-Bus
Resolution	0.001
Working Temp	-10~50℃

Ordering guide

Serie Code		Z	X	X	X	X	X	X	X
Size	Square 96*96	90D							
	Vertical 48*96	80D							
	Transverse 96*48	60D							
Power Supply	110 ~ 240VAC	V1							
	20 ~ 32Vdc	V2							
Pressure Range	XMPa			Mx					
Signal Input	2mV/V					S2			
	4 ~ 20mA					S4			
	0 ~ 10Vdc					S5			
	0 ~ 5Vdc					S6			
PID Signal Output	None						H0		
	4 ~ 20mA						H1		
	0 ~ 10Vdc						H2		
	0 ~ 5Vdc						H3		
Relay Output	None							Blank	
	one-way replay output							K1	
	two-way replay output							K2	
	three-way replay output							K3	
Communication Output	None								Blank
	RS485								T4
	RS232								T2
	Mod-Bus								TM