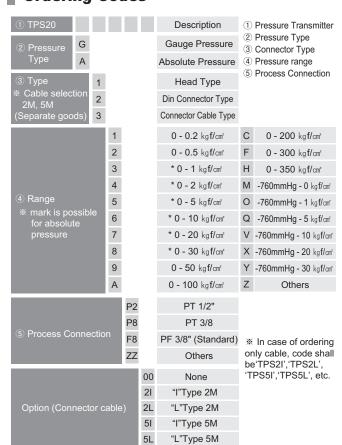
TPS20 Series(electric pressure transmitter) as high accuracy high reliable pressure transmitter using Stainless steel diaphragm, is able to measure whole scale, 0.2~350 Kg/cm²G and has absolute pressure, 0~30Kg/cm²Abs type.

Features

- · Measuring for Air, Water, Oil, etc.
- · A variety of model according to field application
- Head type
- Din connector type
- Connector cable type
- Adoption of suitable Stainless Steel Diaphragm for temperature character
- 4~20mA transmission output by 2-wire

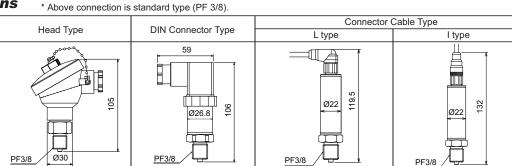
Ordering Codes



Specifications

Measuring range	-760mmHg ~ 0 to 30 Kg/orr A (Compound pressure) 0~0.2 to 350 Kg/orr G (Gauge pressure) 0~1.0 to 30 Kg/orr Abs (Absolute pressure)	
Allowable over pressure	300% of max. Span	
Electric characteristic	Power supply	15V~35VDC
	Output	4-20mA DC
	Load resistance	600Ω Max
	Consumption power	0.5W
	±0.3% F.S(Linearity, Hysteresis, Repeatability)	
Accuracy	Linearity	±0.3% F.S -10~50℃±0.3% F.S 50~70℃±0.5% F.S((except for -10~50℃))
	Hysteresis	±0.3% F.S
Using temp. / Humidity	-10~70℃, 5~95%RH	
Temperature Characteristic	Zero	±0.03%F.S
	Span	±0.03%F.S (25℃ STD.)
Response time	Less 100mS	
Connection	PF 3/8(STD.) (Option : PT 3/8, PT 1/2)	
Material	Element	Diaphragm : SUS 316
		Sealing : SUS 316
	Case	O-ring : Fluorine rubber Connection : SUS316
Range	Refer to Range table	
Case protection	Weatherproof	
Weight	Approx. 320g (Head type STD.)	

Dimensions



(Unit:mm)

TPS20 series

High-Reliability Pressure Transmitter

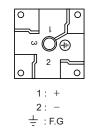
Connections

• Head Type

• DIN Connector Type

• Connector Cable Type

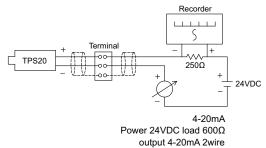






1 : + 3 : Ground

External connections



Mounting | Transportation | Storage | Repair

• **Mounting**: When mounting this unit to pressure line, please use hexagon of connector instead of pipe wrench.

Also please do not use it where sharp vibration occurs

- Transportation: As precision instrument, because drop or shock may cause mechanical trouble, please be careful during transportation.
- Storage: Please store it in the place without moisture, dust, vibration.
- Repair: This unit is unnecessary for repair because detector has not the operating parts.

Internal parts are usually clean but it shall need repair according to the using condition.

Regular repair cycle should be done every year. In this case, please check as following clause.

- * Please check external connector damages.
- * Please check pressure connector, internal cleanness, corrosion.
- * After short circuit, please check isolated resistance between case and power supply.
- * Please check Zero/Span and linearity by using standard pressure equipment.
- In case of disconnecting sensor in order for repair / checking, please operate as follows.
- $\ensuremath{\text{(a)}}$ Please replace the used O-Ring.
- (b) Please be care of sensor diaphragm element in order to avoid from damages.

Diagnosis defect

Error situation	Diagnosis Clause	
It is not outputting.	Does it power on? Is wiring (+) correct? Is not connection defective?	
Output is strangely fluctuating.	Is power normally supplied? Is pressure correctly supplied? Is there any problem in pressure line?	
Output value of zero point is largely different.	Is load resistance of receiving instrument in excess of 6000??	

A В Data Loggers C Indicators D Converters Е Controllers F Thyristor Units G н Temp. Ī.

> TPS20 Series

Thermo

Pressure

Others

Meters

J

IDP

IAP-10

KT - 302H

CN-502H/ CN-501H

SS - 5300

High-Reliability Pressure Transmitter