# TPS2005空世色S55-83656701深圳 0510-High-Reliability中ressure Transmitter

TPS20 Series(electric pressure transmitter) adopts stainless steel diaphragm for pressure part. It enables to measure up to 0.2~350 kgf/cm<sup>2</sup> with high accuracy and reliability.

### Features

- · For measuring pneumatic, hydraulic and oil pressure measuring
- A variety of model according to field application
- Head type
- Din connector type
- Connector cable type (I type, L type)
- Stainless steel diaphragm adopted for the characteristics of temperature
- 4-20mA transmission output by 2-wire

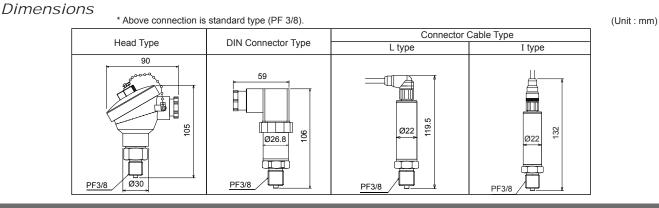
## Ordering Codes

① TPS20				Description	$\sim$	Pressure Transmitter
② Pressure G				Gauge Pressure		Pressure Type Connector Type
Type A				Absolute Pressure	4	Pressure range
③ Type 1				Head Type	(5)	Process Connection
% Cable selection 2M. 5M				Din Connector Type		
(Separate goods) 3				Connector Cable Type		
	1			0 - 0.2 kgf/cm²	С	0 - 200 kgf/cm²
<ul> <li>4 Range</li> <li>* mark is possible for absolute pressure</li> <li>8</li> <li>9</li> <li>A</li> </ul>				0-0.5 kgf/cm²	F	<b>0 - 300</b> kg <b>f</b> /cm <sup>2</sup>
				* 0 - 1 kgf/cm²	Н	<b>0 - 350</b> kg <b>f</b> /cm <sup>2</sup>
				* 0 - 2 kg f/cm²	Μ	-760mmHg - 0 kgf/cm²
				* 0 - 5 kgf/cm²	0	-760mmHg - 1 kgf/cm²
				* 0 - 10 kgf/cm²	Q	-760mmHg - 5 kgf/cm²
				* 0 - 20 kgf/cm²	V	-760mmHg - 10 kgf/cm <sup>*</sup>
				* 0 - 30 kgf/cm²	Х	-760mmHg - 20 kg f/cm <sup>*</sup>
				0 - 50 kgf/cm²	Υ	-760mmHg - 30 kg f/cm <sup>*</sup>
				0 - 100 kgf/cm²	Ζ	Others
5 Process Connection ZZ				PF 3/8" (Standard)	** In case of ordering only cable, code shall be'TPS2I','TPS2L', 'TPS5I','TPS5L', etc.	
				Others		
Option (Connector cable)			00	None		
			21	"I"Type 2M		
			2L	"L"Type 2M		
			51	"I"Type 5M		
			5L	"L"Type 5M		



# Specifications

Measuring range	-760mmHg ~ 0 to 30 Kg/ଙାଁ A (Compound pressure) 0~0.2 to 350 Kg/ଙାଁ G (Gauge pressure) 0~1.0 to 30 Kg/ଙାଁ Abs (Absolute pressure)					
Allowable over pressure	300% of max. Span					
	Power supply	15-35VDC				
Electric	Output	4-20mA DC				
characteristic	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	Zero	±0.03%F.S				
Characteristic	Span	±0.03%F.S (25℃ STD.)				
Response time	Less 100mS					
Connection	PF 3/8(STD.)					
Material	Element	Diaphragm : SUS 316				
	Element	Sealing : SUS 316				
	Case	O-ring : Fluorine rubber Connection : SUS316				
Range	Refer to Range table					
Case protection	Weatherproof					
Weight	Approx. 320g (Head type STD.)					

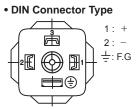


# TPS200-Servies 0755-83656701深圳 0High-Reliability Pressure Transmitter

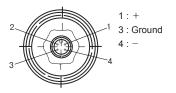
### Connections



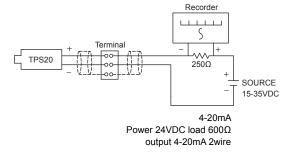




#### Connector Cable Type



#### External connections



## Mounting / Transportation / Storage / Repair

- **Mounting :** When mounting this unit to pressure line, please use hexagon of connector instead of pipe wrench. 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, <sup>Thyristor</sup> Distribution of the state of the st
- \* 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 / check, please operate as follows.
- (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 power normally supplied? Is load resistance of receiving instrument in excess of $600\Omega$ ? How about the transmitting distance to measuring point? Is the line resistance large? (Max. $600\Omega$ )		

#### TPS20 Series

А

В

С

D

Е

Recorders

Indicators

Converters

Controllers

Pressure Transmitters

Temperature Transmitters

IDP

IGP-10 / IAP-10

KT - 302H

PTF30

High-Reliability Pressure Transmitter

KONICS