



# Double Diaphragm Semiconductor Pressure Sensors (Pressure Transmitters) / TCP10 Series

## FEATURES

High Accuracy and High Liability by the combination of Metal Diaphragm and Semiconductor Pressure Sensor.

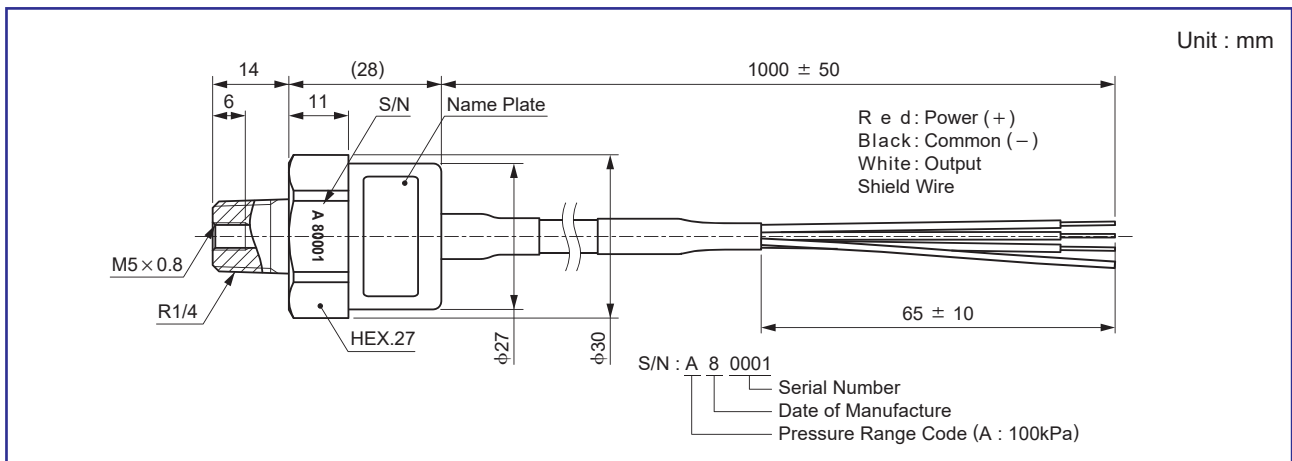
- Low and Medium Pressure Transmitters with stainless steel duplex diaphragm.
- High accuracy and excellent durability supported by wide pressure range available from very low pressure.
- Comply with a wide range of pressure media like Oil, Water, Gas which dose not spoil stainless steel.
- Built-in amplifier, Output signal: 1~5 VDC.
- Economical, Low cost.



## MODEL

TCP10 – □□□□ – □□□□  
 Voltage Output      Electric      Structural  
    Specification      Specification

## EXTERNAL DIMENSIONS



## SPECIFICATIONS

Model No.	TCP10 – □□□□						
	2	5	A	B	E	V	W
Pressure Range	0~20 kPa	0~50 kPa	0~100 kPa	0~200 kPa	0~500 kPa	-100~0 kPa	-100~100 kPa
Pressure Type	Gauge						
Pressure Medium	Non-corrosive gases or liquids compatible with SUS316						
Operating Temperature Range	-10 °C ~ 60 °C						
Maximum Over Load Pressure	Rated Pressure X 5						
Power Source / Rated Output	Power Source:Vs = 12~24 V DC / Rated Output:1~5 V						
Load Resistance	More than 10 kΩ						
Response Time	Less than 3 msec						
Total Accuracy	Less than ± 3 %FS						
Linearity *1	Less than ± 1.5 %FS			Less than ± 0.3 %FS			
Hysteresis *1	Less than ± 0.2 %FS						
Temperature Characteristic *1	Less than ± 0.03 %FS/°C						
Withstand Voltage	500V AC 1min						
Connection	R1/4, other specification consult.						
Structure	Shield Cable Type, other specification consult.						
Cable	1,000 ± 50 mm, Specify cable length.						
Weight	Approx. 150 g						
Environmental Performance (25 ± 5 °C)	Shock Proof	490 m/s <sup>2</sup> (X,Y,Z direction)					
	Vibration Proof	19.6 m/s <sup>2</sup> (Oscillating Frequency:10~150 Hz, Total Sweep Time:75 min. , Sweep Times:10 times Each X,Y,Z direction)					

\*1 : Reference Value. It provides for accuracy by "Total Accuracy".



## MODEL NUMBER CONFIGURATION



Voltage Output  
Built-in Amplifier  
Pressure Sensors (Pressure Transmitters)

① Pressure Range [kPa]	2	0~20
	5	0~50
	A	0~100
	B	0~200
	E	0~500
	V	- 100~0
	W	- 100~ + 100
	② Power Source	2
③ Rated Output	6	1~5 V
④ Accuracy	3	Total Accuracy Less than $\pm 3\%FS$ ( - 10~60 °C)
⑤ Connection	1	R1/4
⑥ Wetted Parts Material	3	Diaphragm:SUS316L Fitting:SUS316L
⑦ Cable Type	1	Cable Type Length:1m
	F	Specify your requirement.
⑧ Additional Spec.	0	Nil
	F	Specify your requirement.