

# P-550

## Compact Pressure Transmitter

### For Hydrogen Applications

- 0 to 5...600bar
- Dry/Wet media
- Superior Long term Stability
- Temperature Compensated
- Linear Amplified Output
- Excellent Repeatability & Hysteresis
- EMI/RFI Protection

P-550 series Long term minimization of these errors is maintained after millions of full scale overpressure cycles, making electronic set point virtually drift-free. Use of ceramic materials in the sensing element and its mounting provides excellent resistance to most liquids and chemicals. Ruggedness and reliability are also enhanced by a stainless steel housing to resist corrosion pressure sealing for media compatibility is provided by selection of welding Sealing type. metal sensing element contains and integral, reliable, solid state, custom hybrid circuit signal conditioner. This circuit is digital interface can be used for a simple PC-controlled calibration procedure, in order to program a set of calibration coefficients into an on-chip EEPROM and without the cost overhead associated with trimming by external devices or a laser.



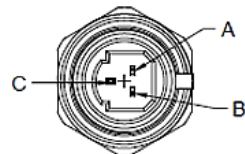
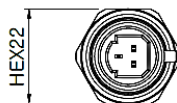
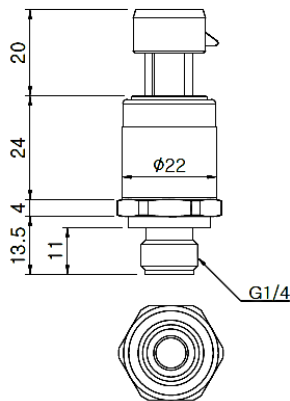
P-550 Series

### TYPICAL APPLICATIONS

- ✓ Hydrogen Applications
- ✓ Process control
- ✓ Pneumatic and hydraulic controls
- ✓ Pump and compressors
- ✓ Agricultural technology
- ✓ Environmental control systems

General SPEC			
Characteristic	P-550(A)	P-550(V)	P-550(HV)
Output	4~20mA	0.5~4.5V / 0~5V / 1~5V	0~10V
Power Supply	8~30VDC	12~36VDC	
Electric Connection	Packard Metri Pack Cable Type		
Pressure Range	0~5...600 [bar] and Option.		
OperatingTemp. Range	-40 to 125℃		
CompensatedTemp. Range	-20 to 80℃		
Accuracy	±0.25%F.S [Typical/25℃ ]		
Total Error band	±0.75%F.S [Typical] / ±1.0 %F.S [MAX]		
Hysteresis And Repeatability	±0.1 %F.S [Typical] / ±0.15 %F.S [MAX]		
Process Connection	G1/4, 7/16-20 UNF, NPT1/4 and Option.		
Wetted Port material	STS630		
Sensor Base material	Hastelloy + Gold		
Body Material	STS316 / STS303		
Electric Connection Material	PA66 + GF30 gold plated Pin		
Enclosure	IP67		
Over Pressure / Burst Pressure	2 x F.S. / 10 x F.S.		
ResponseTime 10~90%	≤2ms		
Withstand Voltage	500V AC (1minutes between case and all terminals tied)		
Insulation Resistance	Greater than 100MΩ (20V DC between case and all terminals tied)		
Mechanical Life cycle	1,000,000/cycle		
Circuit Protection	Reverse polarity protected. (Power supply +/-)		
Shock Proof	1000m/s² (6ms or less, X, Y, Z 3times for each at constant temp.)		
Vibration Proof	200m/s² (10~2000Hz, X:4h, Y:2h, Z:2h at constant temp.)		

Dimensions (mm)



Packard Metri pack connector		
No.	P-550A	P-550V
A	P-	GND
B	P+	VDD
C	SH	OUTPUT

※ STANDARD (Other options require confirmation when ordering.)

△	REV.	DATE	DESCRIPTION	CHKD
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Part name	Material	Scale	Approved
SMART SENSOR	Model Name	1 / 1	Checked
		Unit	Designed
		mm	Date
		Size	24.8.16

P-550 Series

How to order

P - 550

☐ ☐ ☐ ☐ ☐

1) Output signal

4~20mA  
0~5V  
1~5V  
0.5~4.5V  
0~10V

A  
V0  
V1  
V2  
HV

|  
|  
|  
|  
|  
request

2) Pressure range

0~5...600 [bar] and request

|  
|

3) Process connection

G1/4(PF1/4) O-ring  
G1/4(PF1/4) ED-ring  
7/16-20 UNF  
NPT1/4"  
Other on request

|  
|  
|  
|  
|

G4OR  
G4ED  
71620  
NPT14  
request

4) Supply Voltage

5 VDC  
12 VDC  
24 VDC  
Other on request

|  
|  
|  
|

5  
12  
24  
request

5) Seal material

NBR  
Viton  
Other on request

|  
|  
|

N  
V  
request