PRESSURE TRANSMITTER PT5000

Protection Class: IP65
Measuring Range: 0/25 mbar up to 0/1000 bar available
To shift the zero position and adjustable Max. Range: ±10% available

Approvals:

Technical Data

Hysteresis Repeatability: ±0.05% of full scale
Range: refer to the Measure Range Table
Power Supply: 10.5 to 36 volts DC
Output Signal: 4-20 mA, 2 wires
Thermal Compensation Range: -10~+80°C
Ambient Temperature: -40°C to +80°C; Medium Limited Temperature: -40°C~+120°C
Conduit Connection: DIN43650, PG11 packing gland
Wetted Parts Material: SS316L
Housing Material: SS304
Process Connection: Male of ½"NPT (standard), PF ; or G1", M30 x 2, G½" with flush diaphragm available

Measuring Range	25 mbar	100 mbar	400 mbar	0/1 ~ 0/1000 bar
Overpressure Limit (repeated, without hysteresis)	1 bar	1 bar	2.5 bar	4 x range; max. 1200 bar
Damaging Overpressure	2 bar	2 bar	2.5 bar	8 x range; max. 2000 bar
Accuracy	0.6%	0.3%	0.2% (0.16% - special version)	
Long Term Stability	0.6% / year	0.2% / year	0.1% / year	
Thermal Error	Typically 0.5% / 10°C Max. 0.6% / 10°C	Typically 0.3% / 10°C Max. 0.4% / 10°C		Typically 0.2% / 10°C Max. 0.3% / 10°C

Range Table

(Unit: mbar): Others measuring range are on request.

Code	Range	Code	Range
25m	0/25 mbar	160m	0/160 mbar
40m	0/40 mbar	200m	0/200 mbar
60m	0/60 mbar	250m	0/250 mbar
80m	0/80 mbar	300m	0/300 mbar
100m	0/100 mbar	400m	0/400 mbar

(Unit: bar): Others measuring range are on request.

Code	Range	Code	Range
-1	0/-1 bar	16	0/16 bar
0.25	0/0.25 bar	25	0/25 bar
0.40	0/0.4 bar	40	0/40 bar
0.60	0/0.6 bar	60	0/60 bar
1	0/1 bar	100	0/100 bar
1.6	0/1.6 bar	160	0/160 bar
2.5	0/2.5 bar	250	0/250 bar
4	0/4 bar	400	0/400 bar
6	0/6 bar	600	0/600 bar
10	0/10 bar	1000	0/1000 bar

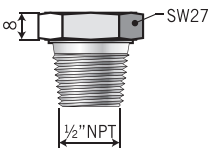
(Unit: bar abs): Others measuring range are on request.

Code	Range	Code	Range
1a	0/1 bar abs	40a	0/40 bar abs
1.6a	0/1.6 bar abs	60a	0/60 bar abs
2.5a	0/2.5 bar abs	100a	0/100 bar abs
4a	0/4 bar abs	160a	0/160 bar abs
6a	0/6 bar abs	250a	0/250 bar abs
10a	0/10 bar abs	400a	0/400 bar abs
16a	0/16 bar abs	600a	0/600 bar abs
25a	0/25 bar abs	1000a	0/1000 bar abs

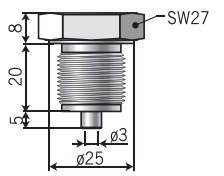
Dimensions / Connection Diagram

Port Types:

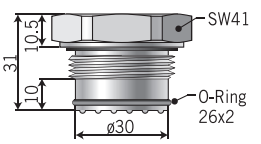
U — ½"NPT Male, standard



B — ½"PF Male

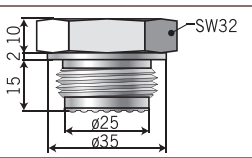


DG1 — G1" c/w Flush Diaphragm



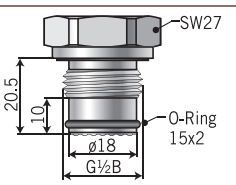
Pressure Limits:
min.: 0.1 bar
max.: 70 bar

DM30 — M30 x 2 c/w Flush Diaphragm

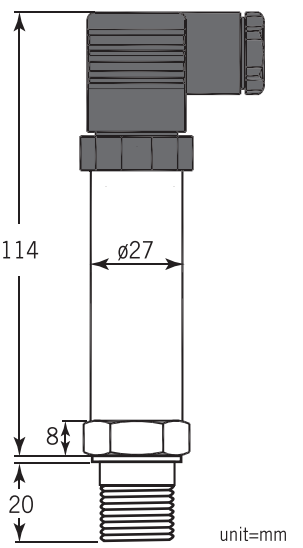


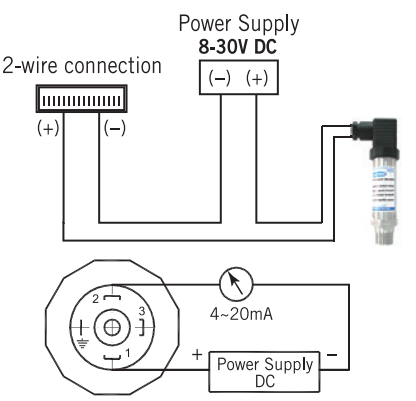
Pressure Limits:
min.: 0.1 bar
max.: 70 bar

DG½ — G½" c/w Flush Diaphragm



Pressure Limits:
min.: 2.5 bar
max.: 300 bar





Ordering Information

PT5000	Code	Pressure Range
		Please refer to the Measuring Range Table, and fill in the 「code」 or 「requested range」 directly. (ex. 100m or 50mbar)

Code	Wetted Parts Material
1	SS316L (standard)

Code	Connection Port (Male)				
U	½"NPT, standard	B	½"PF	S	Customized
DG1	G1" c/w flush diaphragm	DM30	M30x2 c/w flush diaphragm	DG½	G½" c/w flush diaphragm

PT5000				Complete Ordering Code