



UPB1 General Silicon Pressure Transmitter

Description

Based on piezo-resistive silicon technology, UPB1 silicon pressure transmitter uses isolated stainless steel diaphragm pressure sensor as sensing element. By adopting high performance IC, Its amplifier circuit is built in stainless steel housing, to transform sensor mV signal into standard output signal. The pressure range of UPB1 model is very wide from $-1\text{bar}\sim 0$, $0\sim 0.1$ till 1000bar , and the pressure types include vented gauge pressure, absolute pressure and sealed gauge pressure. This transmitter features integrated construction, high measuring accuracy, good long term stability, and it is suitable for pressure measurement in general industry applications.

This product is widely used for pressure measurement and control of petroleum, chemical-industry, metallurgy, power station and hydrology etc



Hirschmann (DIN) Connector



LED Display



Zero & span adjustment



LCD Display



M12 connector



Water-proof connector



3m PVC cables(lock nut)



aviation electrical connector

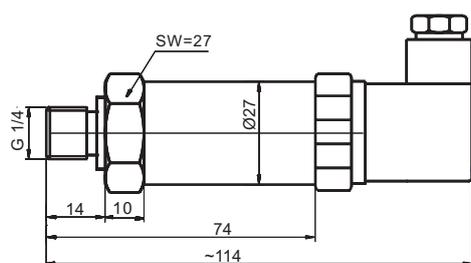
Features

- Wide measuring pressure range: $-1\sim 0\sim 0.1\sim 1000\text{bar}$
- Full stainless steel construction
- Suitable for the measurement of low pressure and vacuum pressure
- Against thunder stroke, against radio-frequency interference
- Anti-corrosion, anti-abrusion, anti-impact
- Reversed-polarity, transient current & voltage protection

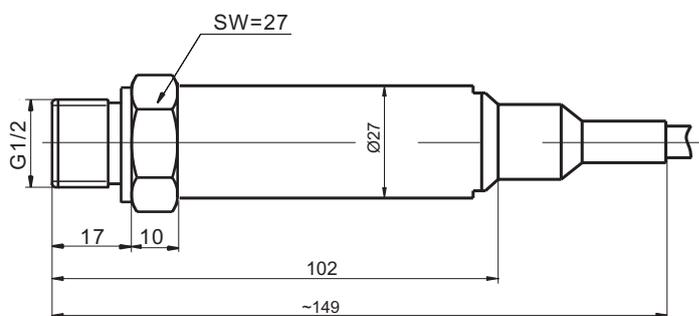
Specifications

pressure medium	gas or liquid compatible to stainless steel
pressure ranges	-1...0~0.1...1000bar
pressure type	gauge(G), absolute(A), sealed gauge(S)
overload pressure	150%FS
output signal	4~20mA, 0~5V, 0~10V, 1~5V, 0.5~4.5V
accuracy	0.1%FS, 0.25%FS(standard), 0.5%FS
load resistance	$R_L = (U - 12V) / 0.02A$ (4~20mA current output) U—loop voltage (V)
long-term stability	<0.2%FS/year
supply voltage	12~36VDC
compensated temperature range	-10~+70°C
operating temperature range	-30~+100°C
storage temperature range	-40~+120°C
temperature coefficient of zero	0.2%FS/10°C
temperature coefficient of span	0.2%FS/10°C
insulation resistance	100MΩ@50VDC
process connection	G1/2 or others
electrical connection	DIN43650 or others
material of wetted part	1Cr18Ni9Ti
material of pressure membrane	316L
material of housing	1Cr18Ni9Ti
sealing	n-Butyronitrile or fluoro-rubber sealing ring

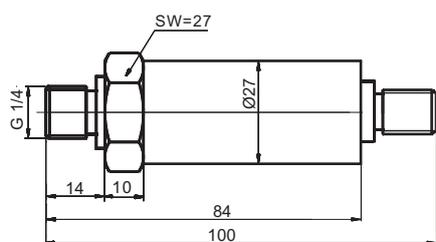
Dimensions



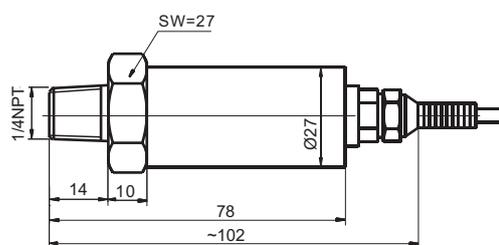
Hirschmann Connector



Water-proof Connector



M12 Connector



Cable(Lock Nut)

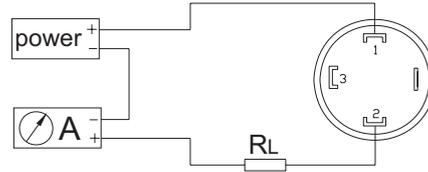
Note: this product can be made according to customer required dimension.



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Electrical connection

Connection	Cable color(pin)
Power“+”	Red(1)
Signal“+”	Yellow(2)



Wiring drawing of 2-wire 4~20mA output(hirschmann connector)

Ordering code

UPB1	
range	measuring range: -1...0bar~0.1...1000bar
(X1~X2)bar	X1: lower limit of actual measuring range, X2: higher limit of actual measuring range
code	pressure type
G	gauge
A	absolute
S	sealed gauge
code	accuracy
B	0.1%FS
C	0.25%FS
D	0.5%FS
code	output
O1	4~20mA
O2	0~5V
O3	1~5V
O4	0~10V
O5	0.5~4.5V
Oz	customer request
code	electrical & process connection
E1	hirschmann(DIN) connector
E2	aviation connector
E3	water-proof connector
E4	3m PVC cables(lock nut)
Ez	customer request
P1	G1/4
P2	G1/2
P3	1/4NPT
P4	M20×1.5
P9	flange type
Pz	customer request
D1	4 digit LCD display(optional)
D2	4 digit LED display(optional)

UPB1 (0~10)bar G C O1 E1P1(D2)*

*:The user determines whether to choose the options in the parenthesis according to the working site