

## Description

Based on piezo-resistive silicon technology, UPB1 silicon pressure transmitter uses isolated stainless steel diaphragm as sensing element. This product is fully tested by computer automatically, and trimmed by laser for zero and sensitivity in a wider temperature range. Its amplifier circuit is built in stainless steel housing, to transform sensor signal into standard output signal. This transmitter features integrated construction, rigid and robust, high measuring accuracy, good long term stability, and 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



Cable(lock nut)



LCD Display

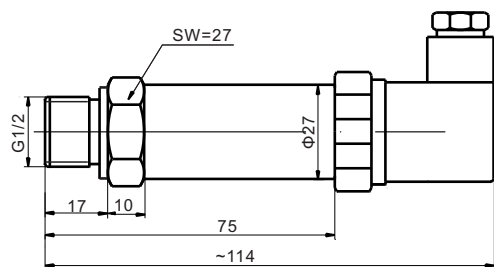


Water-proof Connector

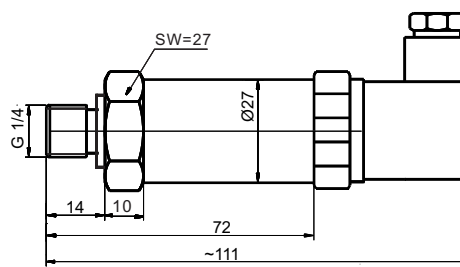
## Features

- Wide measuring pressure range:-1...0~0.1...1000bar
- 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

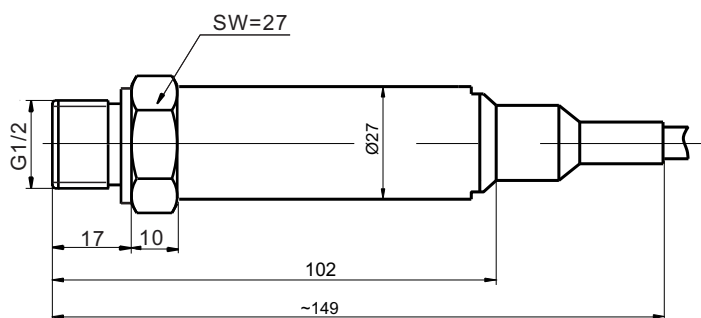
## Dimensions



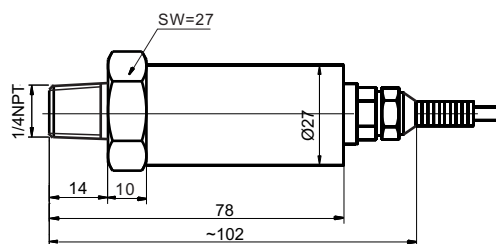
**Hirschmann Connector**



**Hirschmann Connector**



**Water-proof Connector**



**Cable(Lock Nut)**

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

## Specifications

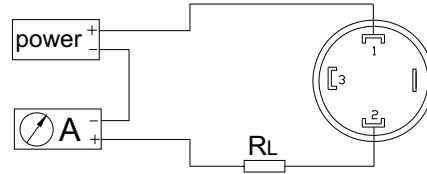
pressure medium	gas or liquid compatible to stainless steel
pressure ranges	-1...0~0.1...1000bar
pressure type	gauge(G), absolute(A), sealed gauge(S)
overload pressure	150%FS
output signal	4~20mA, 0~5V, 0~10V, 1~5V, 0.5~4.5V
accuracy	0.1%FS, 0.25%FS(standard), 0.5%FS
load resistance	$R_L = (U - 12V) / 0.02A$ (4~20mA current output) U—loop voltage (V)
long-term stability	<0.2%FS/year
supply voltage	12~36VDC
compensated temperature range	0~70°C
operating temperature range	-30~80°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	100M $\Omega$ @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



# UPB1 General Silicon Pressure Transmitter

## 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	others
E1	hirschmann connector
E2	aviation connector
E3	water-proof connector
E4	3m cable(lock nut)
Ez	other electrical connection
P1	G1/4
P2	G1/2
P3	1/4NPT
P4	M20×1.5
P9	flange type
Pz	customer request
D1	3-1/2 digit LCD digital indicator
D2	4 digit LED digital indicator
UPB1	(0~10)bar G C O1 E1(D2)*P2

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