



UPB4 High Frequency Response Pressure Transmitter

Description

UPB4 high frequency response pressure transmitter is made of UPC4 high frequency response and special amplifying circuit with high frequency characteristic, its frequency response characteristic has been decided by these two parts.

UPB4 high frequency response pressure transmitter's dynamic frequency response is extremely high (max.1MHz), it may response to the lowest to zero frequency, highest to almost natural frequency, and the level rising time is only microsecond. The special-purpose amplifying circuit's natural frequency is also reach 1MHz(max.), the concrete resonance frequency concerns with its enlargement's multiple.

UPB4 series pressure transmitter is suitable for dynamic pressure real-time measurement in the military engineering, melt exploding experiment, petroleum, oil well logging, the material, mechanics, construction engineering, soil and rock mechanics, wound medicine, hydraulic pressure power generator experiment, and in modernization instruments and meters etc.

Features

- Flush structure option, good dynamic frequency response
- Based on MEMS silicon chips
- High accuracy high reliability
- Good long term stability



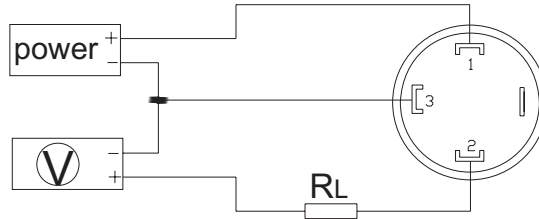
Specifications

dynamic frequency response	1MHz max. (the frequency response is determined by its pressure range.)
pressure medium	gas or liquid compatible to stainless steel
pressure ranges	0~0.1bar...1000bar
pressure type	gauge(G), sealed gauge(S)
overload pressure	≥200%FS
output signal	0~5V and other voltage output signal
accuracy	0.25%FS, 0.5%FS(standard)
long-term stability	<0.2%FS/year
power supply	12~32VDC
compensated temperature range	-10~70°C
operating temperature range	-30~100°C
storage temperature range	-40~100°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	M20×1.5 or others
electrical connection	hirschmann or other
material of wetted part	1Cr18Ni9Ti
material of housing	1Cr18Ni9Ti

Electrical connection

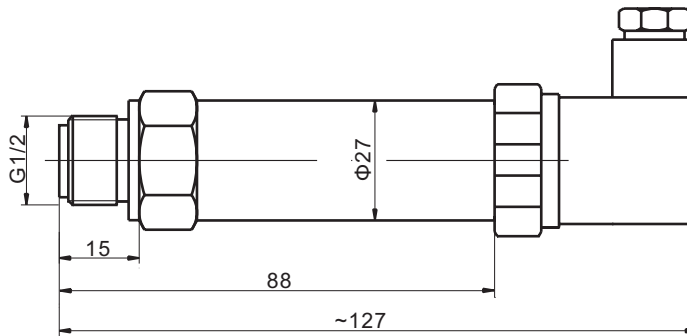
Connection
 Power "+"
 Signal "+"
 GND:

Cable color
 Red (1)
 Yellow (2)
 Black (3)



Wiring of 3-wire 0~5V voltage output(hirschmann connector)

Dimensions



Ordering code

UPB4	
range	measuring range: 0~0.1bar...1000bar
(0~X)bar	X: high limit of actual measuring range
code	output
O2	0~5V
O4	0~10V
O5	0.5~4.5V
Oz	customer request
code	process connection
P1	G1/4
P4	M20×1.5
P6	M12×1
Pz	customer request
code	electrical connection
E1	hirschmann connector
E2	aviation connector
E3	3m PVC cables
Ez	customer request
UPB4	(0~10)bar D P1 E1