

## Description

UPC2 miniature pressure transducer is designed based on micro machine-finishing crafts. Its outer diameter usually is from  $\varnothing 3\text{mm}$  to  $\varnothing 12\text{mm}$ , and its length is within 25mm, this transducer can also be made upon customer's special required shapes and sizes.

UPC2 miniature pressure transducer is featured by its small size, high output, high operating temperature, outstanding dynamic and static characteristics as well as extremely high reliability.

In some special environments, where usually has a harsher request to sensor's external dimensions' microminiaturization. In order not to be interfered by flow fields condition, and also reappear dynamic flow field's change rule, UPC2 is designed for meeting these application specially.



**mV signal output**

## Features

- Miniature structure, small volume, light weight
- Superior static and dynamic characteristics
- Wide measuring ranges
- Big output signal, strong antijamming ability
- Good long-term stability



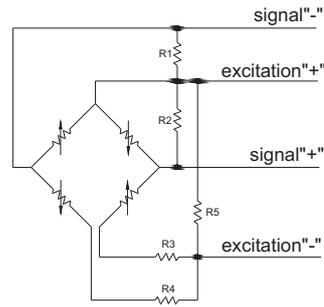
**4~20mA signal output**

## Specifications

pressure medium	gas or liquid compatible to stainless steel, glass and silicon
pressure ranges	0~0.01bar...600bar
pressure type	gauge(G), absolute(A), sealed gauge(S)
overload pressure	150%FS
output signal	$\geq 70\text{mV}$ (0~20kPa, $\geq 50\text{mV}$ )
accuracy	0.25%FS(standard), 0.5%FS
zero offset	$\leq \pm 2\text{mV}$
long-term stability	$< 0.5\%$ FS/year
excitation	1.5mA or 10VDC
compensated temperature range	0~+70°C
operating temperature range	-10~+80°C
storage temperature range	-40~+80°C
temperature coefficient of zero	0.3%FS/10°C
temperature coefficient of span	0.2%FS/10°C
input/output resistance	0.8~6k $\Omega$
insulation resistance	100M $\Omega$ @50VDC
process connection	gas nipple, M5X1 or others
material of housing	1Cr18Ni9Ti

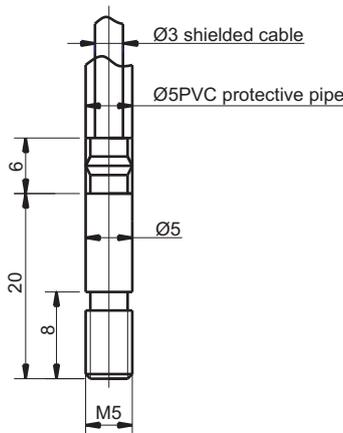
## Electrical connection

connection	cable color
excitation "+":	red
excitation "-":	black
signal "+":	green
signal "-":	white

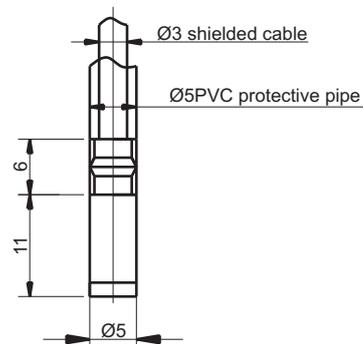


note: please refer to the user manual for the actual wiring

## Dimensions



**M5 process connection**



**gas nipple process connection**

Remark: for pressure range <math>< 0.1\text{bar}</math>, the sensor diameter is 6mm

## Ordering code

UPC2				
	range	measuring range: 0~0.01bar...600bar		
	(0~X)bar	X: actual measuring range		
	code	pressure type		
	G	gauge		
	A	absolute		
	S	sealed gauge		
	code	process connection		
	P1	M5		
	Pg	gas nipple		
	Pz	customer request		
	code	excitation		
	S1	1.5mA		
	S2	10VDC		
UPC2	(0~1)bar	G	P1	S1