

## Description

Based on UPX19 pressure sensor and in-built Pt100 resistor, UPX23 temperature pressure sensor realizes the temperature and pressure measurement simultaneously.

This sensor can match the requirement that need temperature and pressure measurement at same time. Meanwhile, the in-built Pt100 resistor can meet the requirement of further temperature compensation for sensors.



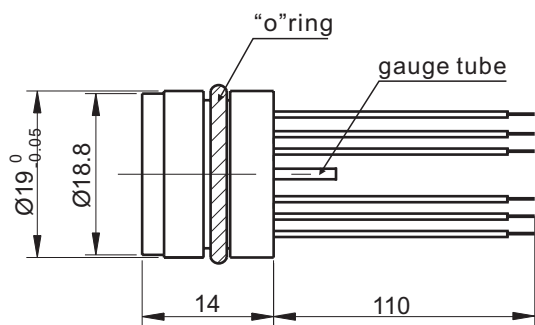
## Features

- Measure pressure and temperature simultaneously
- Super-high cost effective
- Have gauge pressure, absolute pressure and sealed gauge pressure
- Imported pressure silicon dies

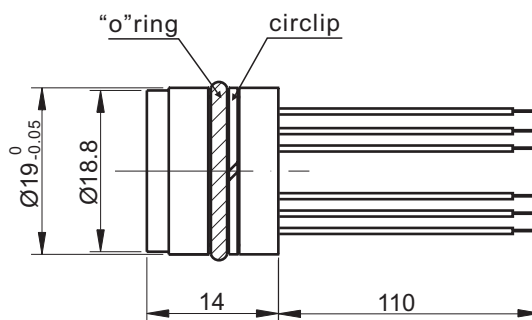
## Specifications

pressure medium	gas, viscous fluid or fluid with grains compatible to stainless steel
pressure ranges	-1...0~0.1...1000bar
pressure type	gauge(G), absolute(A), sealed gauge(S)
temperature sensor	Pt100
overload pressure	150%FS
output signal	≥70mV(typical)
accuracy	0.25%FS(standard), 0.5%FS
zero offset	≤±2mV
long-term stability	<0.2%FS/year
excitation	1.5mA or 5V
compensated temperature range	-10~+70°C
operating temperature range	-40~+125°C
temperature coefficient of zero	0.2%FS/10°C
temperature coefficient of span	0.2%FS/10°C
input/output resistance	2~6kΩ
insulation resistance	100MΩ@50VDC
response time(10%~90%)	≤1ms
electrical connection	6colored silicon rubber flexible wire
wetted part material	316
diaphragm material	316L
filled oil	silicon oil

## Dimensions



for ranges: <160bar



for ranges: ≥ 160bar

## Electrical connection

connection	color
excitation“+”	red
excitation“-”	blue
signal“+”	yellow
signal“-”	white
pt100 “+”	green
pt100“-”	green

## Ordering code

UPX23				
	range	measuring range: -1...0~0.1...1000bar		
		(0~X)bar X: actual measuring range		
	code	pressure type		
		G gauge		
		A absolute		
		S sealed gauge		
	code	compensation method		
		C1 constant current power compensation(1.5mA standard)		
		C2 constant voltage power compensation(5V DC)		
UPX23	0~10bar	G	C1	