



UPX22 All-welded Silicon Pressure Sensor

Description

UPX22 all-welded pressure sensor is constructed by welding general pressure sensor UPX19 into pressure port with standard or specific thread. This structure avoids the hidden trouble or incompetability caused to O-ring in bad conditions. The sensor back end (electrical side) is supplied with M25*1 male thread, it will be easy for use to make transmitter with this design.

UPX22 all-welded pressure sensor can be customized as special requests.

UPX22 pressure sensor is widely used in petroleum industry, chemical industry, process control, hydraulic system, pressure examination measuring instruments, pressure calibration instruments, refrigeration plant and air-conditioning system as well as aviation navigation examination etc.

Features

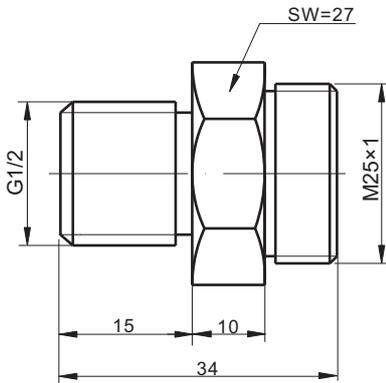
- All-welded structure, suitable for measuring many kinds of media
- Full stainless steel 316L material
- Measuring ranges:-1...0~0.2bar...1000bar
- Excitation: constant current, or constant voltage
- Pressure type: gauge pressure, absolute pressure and sealed gauge pressure



Specifications

pressure medium	gas or liquids compatible with stainless steel
pressure ranges	-1...0~0.1...1000 bar
pressure type	gauge(G), absolute(A), sealed gauge(S)
overload pressure	150%FS(<3.5MPa);150%FS(≥3.5MPa)
output signal	≥70mV(typical)
accuracy	0.25%FS(standard), 0.5%FS
zero offset	≤±3mV
long-term stability	<0.2%FS/year
excitation	1.5mA or 10V DC (1.5mA standard)
compensated temperature range	-10~+70℃
operating temperature range	-40~+125℃
storage temperature range	-40~+125℃
temperature coefficient of zero	0.25%FS/10℃
temperature coefficient of span	0.2%FS/10℃
input/output resistance	2.5~8kΩ
insulation resistance	500MΩ@100VDC
response time(10%~90%)	≤1ms
electrical connection	4 colored silicon rubber flexible wire or 6 pin(gold coated kovar wires)
housing and diaphragm material	316L

Dimensions



Electrical connection

connection	wire
excitation "+"	red
excitation "-"	blue
signal "+"	yellow
signal "-"	white

Ordering code

UPX22		range		measuring range: -1...0~0.1...1000bar	
		(X1~X2)bar		X1: the lower limit of pressure, X2: the upper limit of pressure	
		code		pressure type	
		G		gauge	
		A		absolute	
		S		sealed gauge	
		code		process connection	
		P1		G1/4	
		P2		G1/2	
		P4		M20x1.5	
		P6		1/2NPT	
		Pz		as customers request	
		code		electrical connection	
		E1		6-Pin	
		E2		4 colored silicon rubber flexible wire	
		code		excitation	
		C		constant current	
		V		constant voltage	
UPX22	10	G	D	E1	C