



UPB12 Piezo-Resistive Silicon Differential Pressure Transducer

Description

UPB12 differential pressure transducers/transmitters are assembled by using OEM silicon piezoresistive pressure sensors. UPB12's housing is made of aluminum alloy structure, and the products can be installed on the pipelines directly, or connected through pressure pipes. UPB12 differential pressure transducers/transmitters are featured with high stability, good dynamic performance. The non-linearity and temperature drift of the transducers can be compensated by equipped a high performance microprocessor, and also realize such functions as precise data transmission, field apparatus diagnosis, long-distance two-way communications and so on. The output signals of UPB12 have mV, V, or mA, as well as frequency output for options.

UPB12 are suitable for measurement & control for almost kinds of liquids and gas. They are widely used for pressure process & control in electric powers and coal mining pressure such as for boiler air supply and ventilation of mine etc.



Features

- Using imported sensitive chips and high performance special-purpose circuit
- Strong ability of anti-interference, and good long term stability
- Full scope compensation for zero & sensitivity
- Have mV output signal, and standard Volt or mA output signal for options
- With many different outer structures

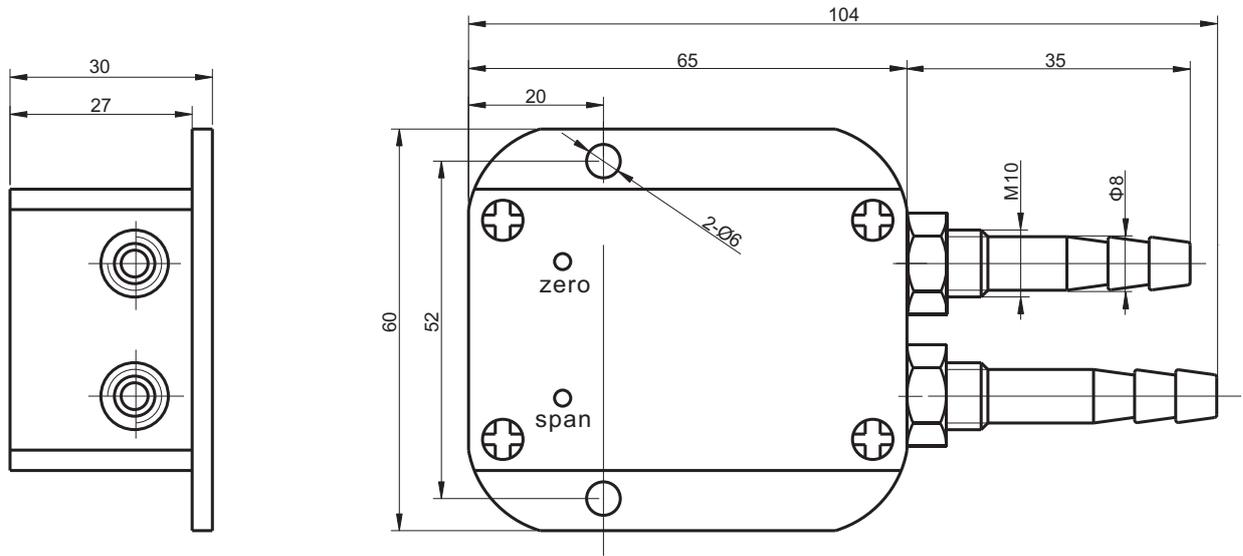
Specifications

pressure media	non-electroconductive and non-corrosive gas or dilute-liquid
pressure ranges	0~1...600kPa
overload pressure	300%FS
system pressure	500%FS
output signal	~70mV(for transducer);4~20mA, 0~5V, 0~10V, 1~5V(for transmitter)
accuracy	0.25%FS, 0.5%FS(standard)
zero offset	<1.5%FS
supply voltage	0.5~1.5mA or 3~10VDC(for transducer);12~36VDC(for transmitter)
compensated temperature range	-10~70°C
operating temperature range	-20~+85°C
measured media temperature range	-20~+85°C
temperature coefficient of zero	0.3%FS/10°C
temperature coefficient of span	0.3%FS/10°C
insulation resistance	500MΩ@50VDC
process connection	M10 with Φ8 gas nipple
electrical connection	2m cable
relative humidity	0~80%RH
material of housing	aluminum alloy



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Dimensions



Ordering code

UPB12			
	range	measuring range: 0~1...600kPa	
	(0~X)kPa	X: required measuring range	
		code	output
		O1	4~20mA
		O2	0~5V
		O3	1~5V
		O4	0~10V
		Oc	~70mV (for transducer)
		Oz	customer request
UPB12	(0~5)kPa	O1	D