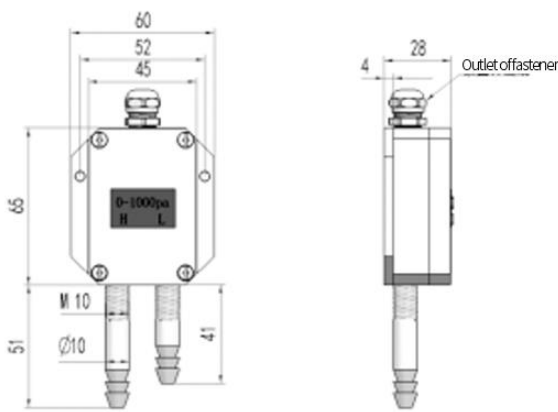
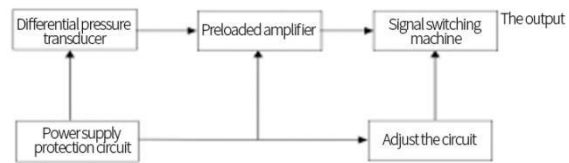


dimension figure



principle and characteristics

PN51C series diffused silicon differential pressure transmitter is composed of differential pressure sensor and integrated amplifier circuit. It has the advantages of high stability and good dynamic measurement performance. It is equipped with high-performance microprocessor to correct and compensate sensor nonlinearity and temperature drift, realize accurate digital data transmission, field equipment diagnosis, remote two-way communication and other functions, suitable for use in the measurement and control of liquid and gas. This transmitter has a variety of range, can meet the needs of all kinds of users. It is widely used in metallurgy, machinery, petroleum, chemical industry, power station, light industry, food, environmental protection, national defense and scientific research in various fields. The working principle of diffused silicon differential pressure transmitter is: the process pressure acts on the sensor, the sensor is the output voltage signal proportional to the pressure, the voltage signal is transformed into 4–20mA standard signal through the amplifier circuit. The power supply protection circuit provides excitation for the sensor, and the sensor adopts precision temperature compensation circuit. Its working principle block diagram is as follows:



technical specification

range ability	0–100kpa
accuracy	± 1%、
power supply	24VDC(12–32)VDC
signal output	4–20mA DC
long-term stability	Plus or minus 0.5% or less F.S/year
over load pressure	≤ 3 times of rated pressure
operating temperature range	( -20 ~ 80 ) °C

Selection table

PN51C–	A	4	A	8	D	specification
PN51C–						PN51C series exquisite differential
	A					Range: 0... 100Pa
	B					Range: 0... 200Pa
	C					Range: 0... 500Pa
	D					Range: 0... 1000Pa
	E					Range: 0... 2000Pa
	F					Range: 0... 5000Pa
	G					Range: 0... 10KPa
	H					Range: 1000... 200Pa
	I					Range: 500... 500KPa
	J					Range: 1... 1KPa
	K					Range: – 2... 2KPa
	L					Range: 5... 5KPa
	M					Range: – 10... 10KPa
		4				Output: 4–20 ma
		0				Output: 1–10 v
			A			Accuracy: 1% FS
				8		Install the 8mm pagoda connector
					D	Power supply: 16 and 32 VDC

\* The selection table is only available for parameter selection, and the corresponding code is delivered.