

GPK100 SERIES PRESSURE SWITCH

FEATURES

- ◎ OLED display, rotatable
- ◎ Range migration, zero clearance
- ◎ Multiple Switch Outputs
- ◎ Adjustable response time
- ◎ NPN, PNP compatible, free switching
- ◎ LED for node action, easy to observe



PRODUCT OVERVIEW

The GPK Series Pressure Switch is a versatile measurement and control device that combines both pressure sensing and control capabilities. Featuring advanced silicon piezoresistive pressure sensors as its core, the series can also be equipped with other sensor technologies, such as ceramic capacitors, sapphire, and sputtered film sensors, depending on the application requirements. The pressure switch utilizes programmable digital circuits for signal conditioning and correction, outputting standard industrial application signals and switch signals for precise pressure control.

APPLICATION

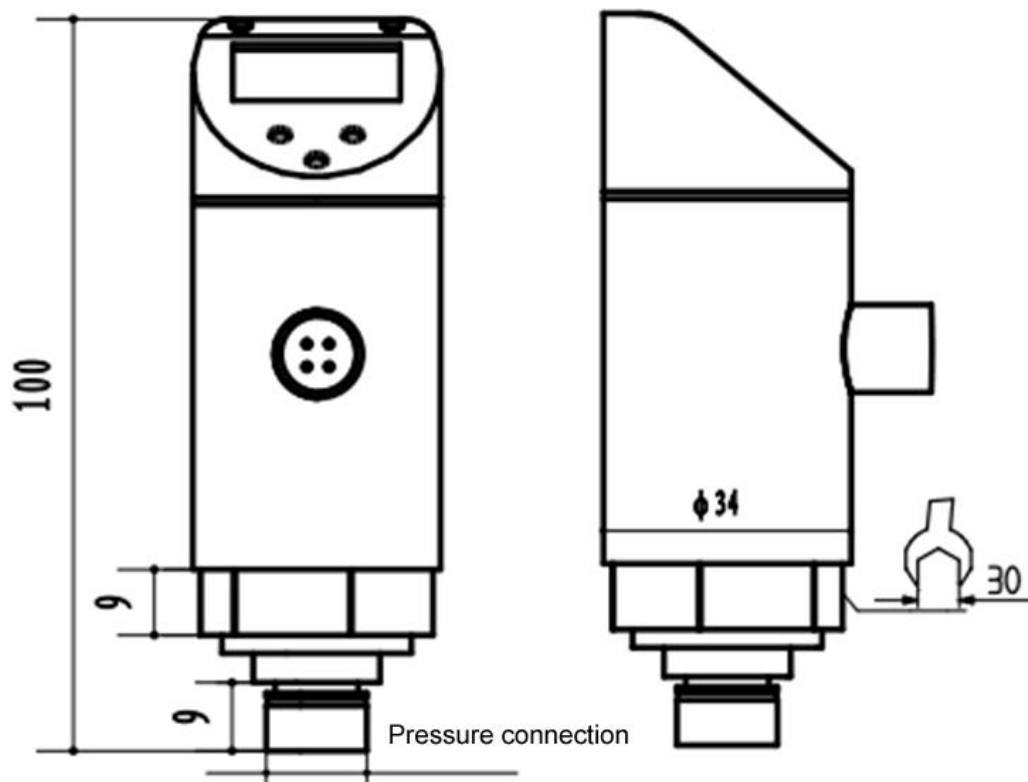
The GPK Series Pressure Switch is widely used in industries that require precise pressure measurement and control. It is particularly well-suited for applications in water treatment, power generation, pharmaceuticals, and other sectors, offering excellent adaptability and performance. Its flexibility and reliability make it an ideal solution for fluid measurement and control systems where precise pressure management is crucial.

With its high performance and customizable features, the GPK Series provides users with an efficient and reliable pressure control solution for a wide range of industrial applications.

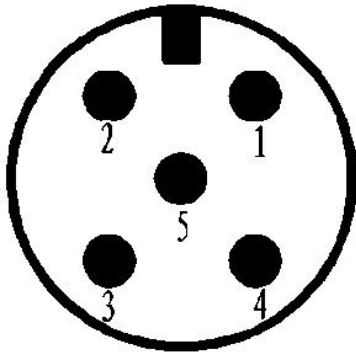
SPECIFICATIONS

Pressure type	Gauge pressure, Absolute pressure, Sealed pressure
Pressure range	-0.1MPa~0kPa~10kPa...100MPa
Power supply	15VDC ~ 30VDC (Standard 24VDC)
Output signal	Relay, NPN or PNP+4mA ~ 20mA
Overload pressure	$\leq 200\%$ (<10MPa), $\leq 150\%$ (≥ 10 MPa)
Response time	$\leq 3\text{ms}$ (10%~90%)
Media temperature	-40°C ~85°C
Accuracy	0.1%FS, 0.25%FS, 0.5%FS
Measuring medium	Fluid compatible with 304, 316L and titanium alloy
Protection	IP66

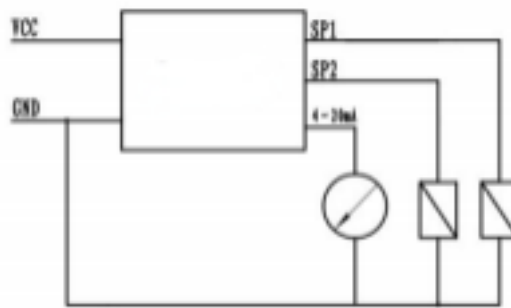
MECHANICAL DIMENSION



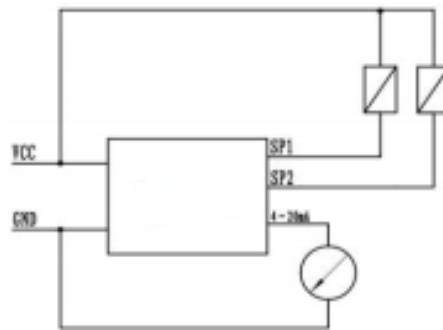
WIRING



- 1: VCC (Supply +)
- 2: SP2 (Switch 2)
- 3: GND (Supply -)
- 4: SP1 (Switch 1)
- 5: 4~20mA



PNP output wiring diagram



NPN output wiring diagram

ORDER FORMAT

GPK100 - H - 1MPa - G - G1/2

Accuracy	Code
0.1%FS	C
0.25%FS	H
0.5%FS	M

Pressure Range	Code
0~Xbar	XBar
0~XKPa	XKPa
0~XMPa	XMPa
0~XPSI	XPSI
-x~Xbar	MxXB
-x~XKPa	MxXK

Code	Thread size
G1/2	G1/2
G1/4	G1/4
1/2NPT	1/2NPT
1/4NPT	1/4NPT
M20	M20X1.5

Code	Pressure type
G	Gauge pressure
A	Absolute pressure
S	Sealed pressure