



PRODUCT MANUAL

WNK81MA

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PRODUCT INTRODUCTION

WNK81MA is piezoresistive pressure transducer, using imported ASCI signal conditioning chip and diffused silicon sensor core. Unlike ordinary pressure sensors, which can only measure gauge pressure, this product can also measure absolute pressure. The transducer is automatically tested and temperature compensated by laser resistance adjustment technology. It has features of anti-corrosion, anti-wear, shock resistance and vibration resistance. With long-term stability and high accuracy, it widely used in the pressure measurement and control fields of HVAC, Auto, Pumping, water treatment and etc.





APPLICATION



**PIPELINE SYSTEM
AUTOMATIC PUMPING**



**WATER
TREATMENT**



**OIL
PRESSURE**



**AGRICULTURAL
IRRIGATION**



AUTO PARTS



PUMP



**HVAC PRESSURE
SYSTEM CONTROL**



**MEDICAL
GAS SUPPLY**

FEATURES

- Compact size,easy to install
- Imported Chip,temperature compensation,high accuracy
- Strong overload
- Long time stable
- Wide range of application



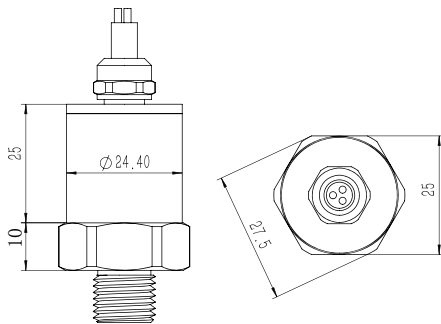
SPECIFICATION PARAMETERS

Model	WNK81MA
Type	Gauge pressure Seal pressure Absolute pressure
Range	-100Kpa~5Kpa...600Bar
Overload pressure	150%
Failure pressure	200%
Signal output	0.5-4.5V I2C 4-20mA 0-5V 0-10V Others
Scope of power supply	5V 3.3-5V 12-30V 9-30V 12-30V
Sensor type	Diffused silicon type
Accuracy	0.5%
Acquisition frequency	2.4KHZ
Rated insulation voltage	1000V
Start time	150ms
Working temperature	-20~85℃
Storage temperature	-20~85℃
Housing	304 stainless steel (optional 316L stainless steel)
Protection level	IP65
Electrical connection	Cable outlet Mini DIN43650 GX12-3 Packard DIN43650 M12 4Pin
Process connection	G1/4 1/4NPT M20x1.5 M10x1 G1/8 1/8NPT 7/16-20UNF Female Other

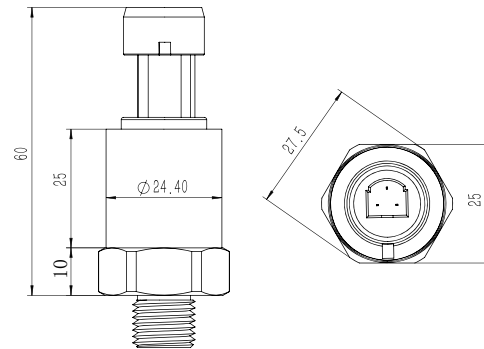
Output	0.5-4.5v	I2C	4-20mA	0-5V	0-10V
Supply Voltage	4.75-5.25v	3.3-5V	12-30V	9-30V	12-30V

PRODUCT SIZE

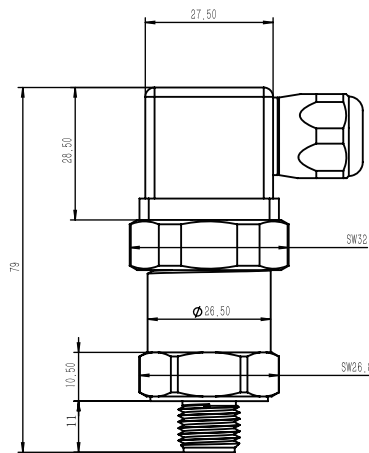
Unit:mm



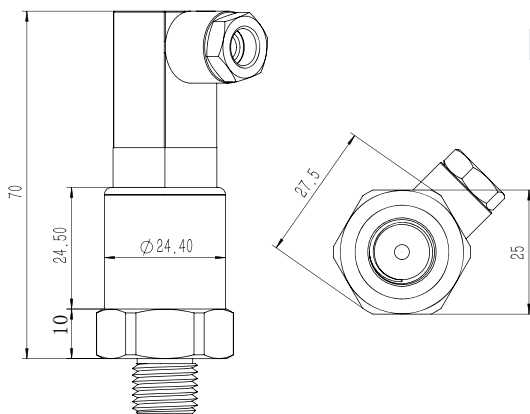
Cable outlet



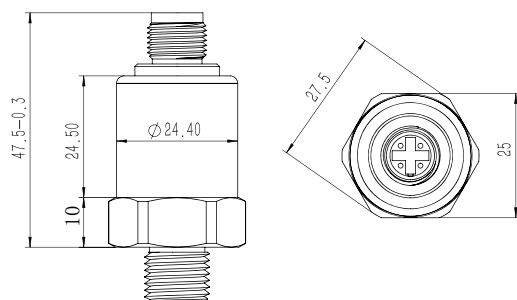
Packard



DIN43650



Mini DIN43650



M12 4Pin



ELECTRICAL CONNECTION

Packard	M12 4Pin	Cable Outlet	Mini DIN43650
C1	C2	C3	C4
4-20mA	4-20mA	4-20mA	4-20mA
Red/Pin1 VCC Black/Pin2 GND	Brown/Pin1 VCC White/Pin2 GND	Red VCC Black GND	Red/Pin1 VCC Black/Pin2 GND
Yellow/Pin3 VOUT	Blue/Pin3 VOUT	Yellow VOUT	Yellow/Pin3 VOUT
	I2C		
	Brown/Pin1 VCC White/Pin2 SCL Blue/Pin3 GND Black/Pin4 SDA	Black GND	

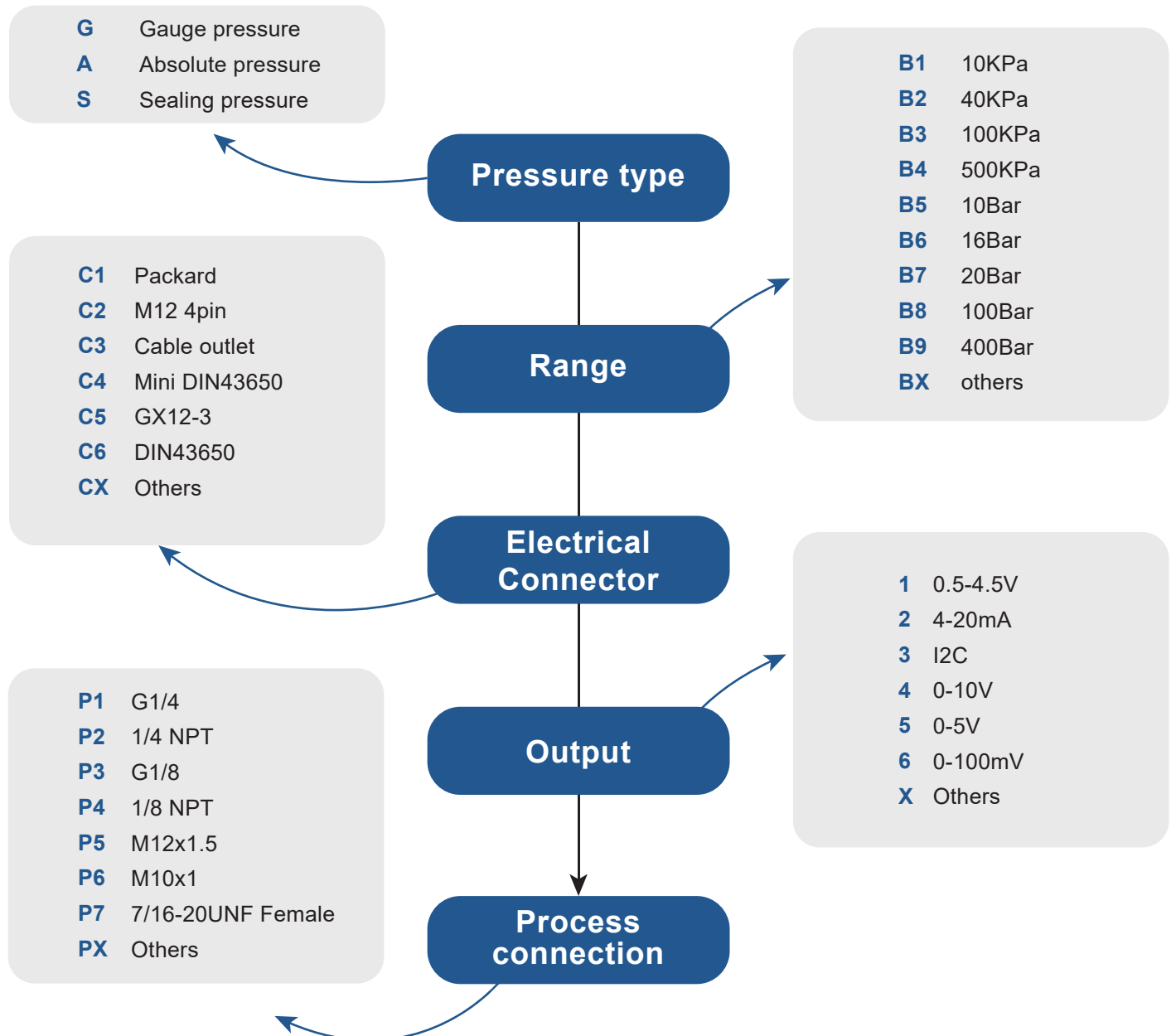
PROCESS CONNECTION

Thread	G1/4	1/4 NPT	G 1/8
Unit:mm The hexagon is 25mm			
Number	P1	P2	P3

Thread	1/8 NPT	M12x1.5	M10x1	7/16-20UNF Female
Unit:mm The hexagon is 25mm				
Number	P4	P5	P6	P7



SELECTION GUIDE



Please select your selection code : **WNK81MA-G-B6-C2-2-P1**