



PRODUCT MANUAL

Manjeera
A & A Corporation

PRODUCT INTRODUCTION

Manjeera is a ceramic pressure sensor designed for general industrial and commercial use with a wide range of applications.

Using ASIC signal conditioning chip and dry ceramic capacitor pressure sensor, it has the characteristics of anti-corrosion, anti-wear, anti-shock and vibration. In addition, the ceramic capacitor pressure sensor has high temperature stability and time stability, and can be in direct contact with most media.





APPLICATION



**WATER
PRESSURE**



**AIR
PRESSURE**



**OIL
PRESSURE**



**AGRICULTURAL
IRRIGATION**



FOOD



MEDICINE



HVAC



REFRIGERANT

FEATURES

- Multiple Process Connection Options – Ease of installation.
- 1% Typical Accuracy – Offers superior accuracy which can work well for critical applications.
- Factory Calibrated – No need for field calibration. Plug and play reliability.
- Rugged, Compact Design – Easy to package or install.
- OEM/ODM Available – Adaptable to special needs.
- IP65 UL listed, RoHS, and CE compliant.
- 12 Months warranty.



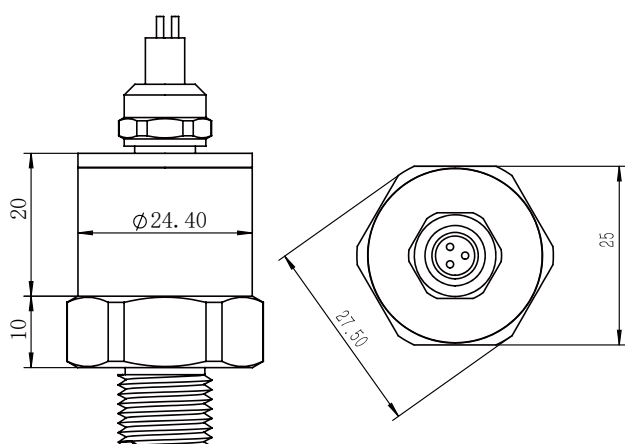
SPECIFICATION PARAMETERS

Model	Manjeera					
Type	Gauge pressure Seal pressure					
Range	0-60bar					
Overload pressure	150%					
Failure pressure	200%					
Signal output	0.5-4.5V	I2C	4-20mA	1-5V	0-10V	Others
Scope of power supply	5V	3.3-5V	12-30V	9-30V	12-30V	
Zero temperature drift	2%					
Accuracy	1%FS					
Acquisition frequency	2.4KHZ					
Start time	150ms					
Working temperature	-20~70℃					
Storage temperature	-20~70℃					
Protection level	IP65					
Electrical connection	Cable outlet	Mini DIN43650		Packard	M12 4Pin	
Process connection	G1/4	1/4NPT	M20x1.5			
	M10x1	GX12-3	G1/8	1/8NPT		
	7/16-20UNF Female			Other		

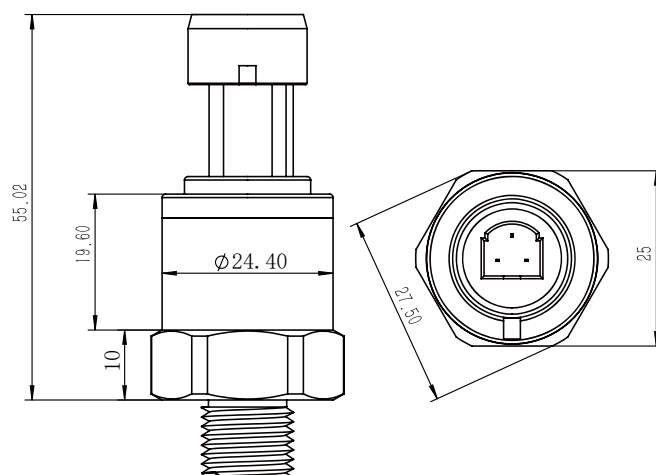
Output	0.5-4.5v	I2C	4-20mA	1-5V	0-10V
Supply Voltage	4.75-5.25v	3.3-5V	8-30V	9-30V	12-30V

PRODUCT SIZE

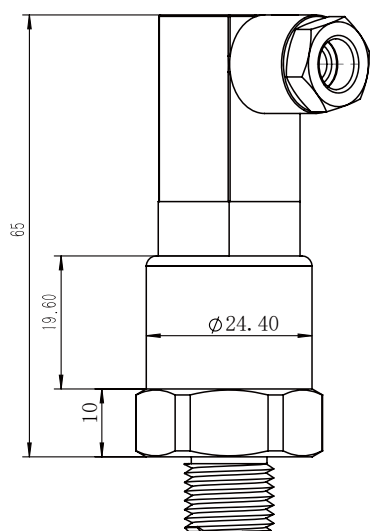
Unit:mm



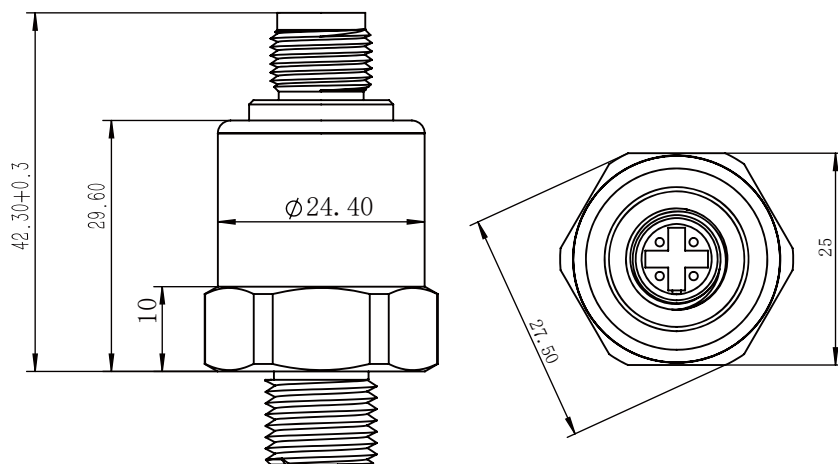
Cable outlet



Packard

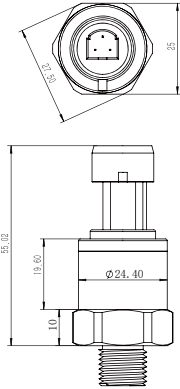
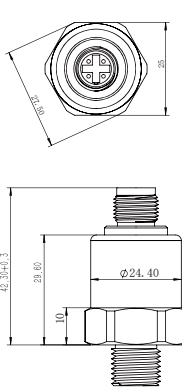
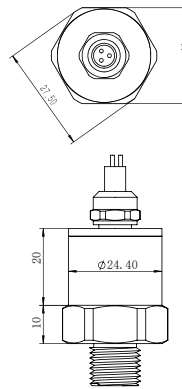
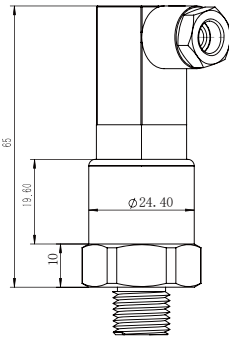


Mini DIN43650

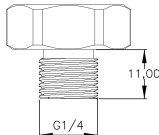
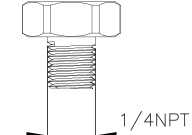
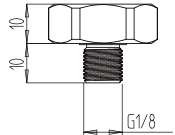


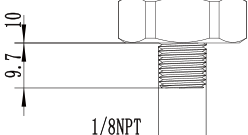
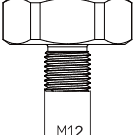
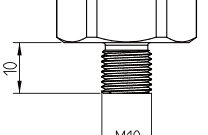
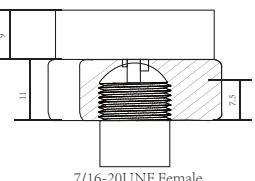
M12 4Pin

ELECTRICAL CONNECTION

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

PROCESS CONNECTION

Thread	G1/4	1/4 NPT	G 1/8
Unit:mm The hexagon is 24mm			
Number	P1	P2	P3

Thread	1/8 NPT	M12x1.5	M10x1	7/16-20UNF Female
Unit:mm The hexagon is 24mm				
Number	P4	P5	P6	P7



SELECTION GUIDE

Pressure Type

Gauge pressrue	G
Sealing pressure	S

Range

10bar	A
20bar	B
30bar	C
40bar	D
50bar	E
60bar	F

Electrical Connector

Packard	C1
M12 4pin	C2
Cable outlet	C3
Mini DIN43650	C4
GX12-3	C5
Others	CX

Output

0.5-4.5V	1
4-20mA	2
I2C	3
0-10V	4
1-5V	5
Others	X

Process Connection

G1/4	P1
1/4 NPT	P2
G1/8	P3
1/8 NPT	P4
M12x1.5	P5
M10x1	P6
7/16-20UNF Female	P7
Others	PX