

CS-GU27 Pressure Transmitter

(Product Specification)

XI'AN CHINASTAR M&C LIMITED

CS-GU27



Applications

- High-precision fluid measurement in advanced manufacturing field
- High-precision hydraulic lubrication system
- Fluid measurement in wide temperature area in harsh environment

Description

CS-GU27 pressure transmitter can be used in the field of pressure measurement, including advanced intelligent manufacturing industry. The pressure measurement based on absolute pressure and gauge pressure can be realized by selecting high-precision MCS pressure element and special calibration circuit. CS-GU27 pressure transmitter also has the advantages of high accuracy in the whole temperature range, high waterproof grade and high electromagnetic compatibility (EMC) level. It is a good choice as a pressure measurement.

Features

- MCS pressure element
- High precision in the whole temperature range
- Protection grade IP67
- Reverse voltage protection
- Fully welded, without sealing ring
- Stainless steel casing



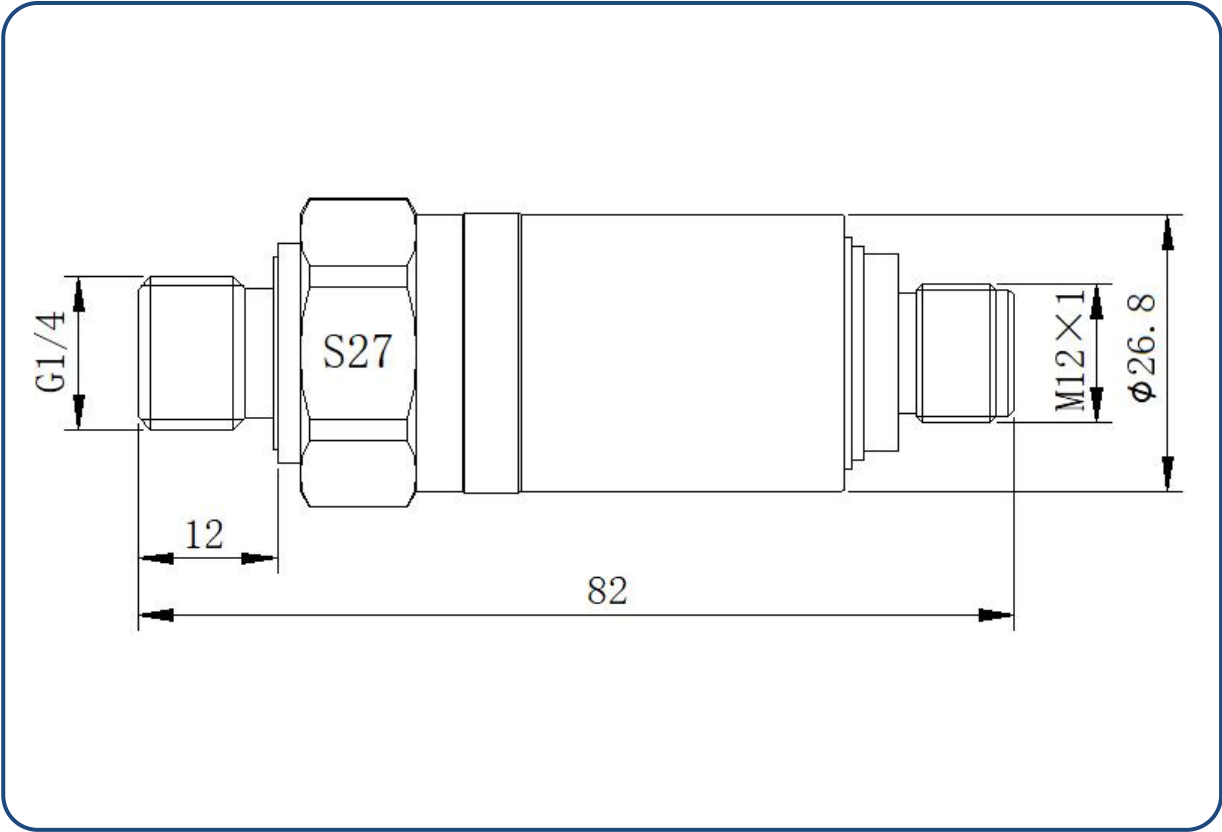
Performance Specifications

Temperature: 20°C~25°C; Power supply: 24VDC; Relative humidity: 45%~75%; ambient atmospheric pressure: 86~106KPa;


Pressure Range	0 ~ 2.5MPa...50MPa (G/A)		
Overload Pressure	1.5X		
Burst Pressure	3X~10X		
Accuracy	Type I: $\pm 0.1\%F.S.$, $\pm 0.2\%F.S.$, $\pm 0.5\%F.S.$ (@15°C~35°C)		
	Type II: $\pm 0.1\%F.S.$, $\pm 0.2\%F.S.$, $\pm 0.5\%F.S.$ (@-40°C~85°C)		
Long-term Stability	$\pm 0.1\%F.S./year$		
Response Time	(10% ~ 90%) $\leq 10ms$		
Operation Temperature	-40°C~85°C		
Storage Temperature	-50°C~125°C		
Output Signal	RS485	1~5V	4~20mA
Supply Voltage	10~30VDC		24VDC
Insulate Resistance	$\geq 100M\Omega@250VDC$		
Insulate Intensity	250VDC@1min (No sparks, no arcs, no damage)		
ESD	Contact: $\pm 6kV$, Air: $\pm 8kV$		
IP Rating	IP67		
Random Vibration	10g, 5 ~ 2000Hz		
Shock	X/Y/Z 20g, 11ms半正弦		
Drop (any Axis)	1m		
Pressure Connector	G1/4 male		
Electrical Connection	M12		
Applicable Refrigerant Medium	Fluid compatible with 17-4 PH		



Structure and Dimension (mm)



Electrical Connection

M12X1-4P	Pin	Defination		
		RS485	1~5V	4~20mA
	1	Power Supply (U+)	Power Supply (U+)	Power Supply (U+)
	2	RS485+	Voltage Output (Vo)	Current Output (Io)
	3	GND	GND	
	4	RS485-	Shield (PE)	Shield (PE)



Model Selection Tips

GU27	Series Pressure Transmitter			
	Code	Measuring Range		
	X	X stands for actual pressure measuring range		
		Code	Output	
		S	RS485	
		F	1~5V	
		A	4~20mA	
			Code	Accuracy Type
			I	Type I
			II	Type II
			Code	Accuracy
			1	±0.1%
			2	±0.2%
			5	±0.5%
GU27	-X	-S	-I	-1

Notes

- The pressure transmitter must be used in the medium that is non-corrosive to the seal material and the housing material.
- In case the pressure guiding hole of the transmitter is blocked, it is forbidden to use sharp tools to clear it. Instead, one should remove the transmitter from the system, immerse the pressure guiding hole part in the liquid which can dissolve the blockage, and then the blockage will flow out easily.
- It's prohibited to open the transmitter by users for calibration or repair.
- Please contact us if you're not sure whether the transmitter is suitable for the medium to be measured.



- e. The transmitter should be installed in a location that is not easily bumped or stepped on.
- f. Exceeding of the transmitter overload pressure may cause permanent damage.
- g. Where lightning may occur, customers should consider lightning protection measures.

Disposal methods of hazardous wastes such as waste circuit boards and their components after the end of product life

After the end of the product life, each part shall be distinguished according to the “National hazardous waste list” to determine whether it is hazardous waste. Among them, the waste lithium battery not disassembled is not hazardous waste, and the waste circuit board (including components, chips, plug-ins, pins, etc. attached to the waste circuit board) belongs to hazardous waste.

The part that is not hazardous waste shall be treated as general industrial solid waste, and the lithium battery shall be handed over to the nearby renewable resource recovery department or sent to the product manufacturer for recycling.

Hazardous wastes must be handed over to legally qualified departments for disposal in accordance with national regulations, and shall not be dumped or stacked without authorization. If it is really necessary to store temporarily, protective measures meeting the national environmental protection standards must be taken, and the storage period shall not exceed one year. At the same time, the time and place of temporary storage and the protective measures taken shall be reported to the competent environmental protection department. Hazardous waste transfer activities can be arranged according to the actual production situation. The system shall be strictly implemented in the transfer process



Statement

Chinastar Company. reserves the right to modify the specifications and contents of this instruction. No further notice will be given if any changes are made. Due to product updates, the individual details of this document may not match the product. Please refer to the actual product. The right to interpret this document belongs to Chinastar Company.

