Pressure and level transmitters

High-Accuracy Pressure Transmitter, MCS Element, ±0.1%F.S

Model GU27

Pressure transmitter with an MCS pressure element for gauge or absolute measurement from 0–2.5MPa...50MPa, accuracy down to ±0.1%F.S and RS485, 1–5V, 4–20mA output.



Range
0–2.5MPa...50MPa (G/A)

Output
10–30VDC

Protection
IP67

Supply voltage
24VDC

Features

- High precision over the whole temperature range
- IP67, stainless steel casing
- Fully welded, no sealing ring
- Reverse voltage protection
- G1/4 male or M20*1.5 male connector

Applications

Hydraulic lubrication systems, High-precision fluid measurement, Flow measurement in harsh environments

Specifications

Performance specifications

Reference conditions	Temperature 20°C~25°C; power supply 24VDC/15VDC (output TTL level); 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	±0.1%F.S, ±0.2%F.S, ±0.5%F.S (@15°C~35°C)
Accuracy type II	±0.1%F.S, ±0.2%F.S, ±0.5%F.S (@-40°C~85°C)
Long-term stability	±0.1%F.S/year
Response time	(10%~90%) ≤10ms

Electrical	
Output signal	RS485 / 1–5V / 4–20mA / 30–40KHz, TTL
Supply voltage (RS485 and 1~5V outputs)	10–30VDC
Supply voltage (4~20mA output)	24VDC
Supply voltage (30~40KHz TTL output)	15VDC
Insulate resistance	≥100MΩ@250VDC
Insulate intensity	250VDC@1min (no sparks, no arcs, no damage)
Electrical connection	M12 or Cable Outlet

Environmental	
Operation temperature (RS485, 1~5V, 4~20mA outputs)	-40°C~85°C
Operation temperature (30~40KHz TTL output)	-65°C~85°C
Storage temperature	-50°C~125°C
Random vibration	10g, 5–2000Hz
Shock	X/Y/Z 20g, 11ms half sine
Drop (any axis)	1m

EMC	
ESD	Contact: ±6kV, Air: ±8kV

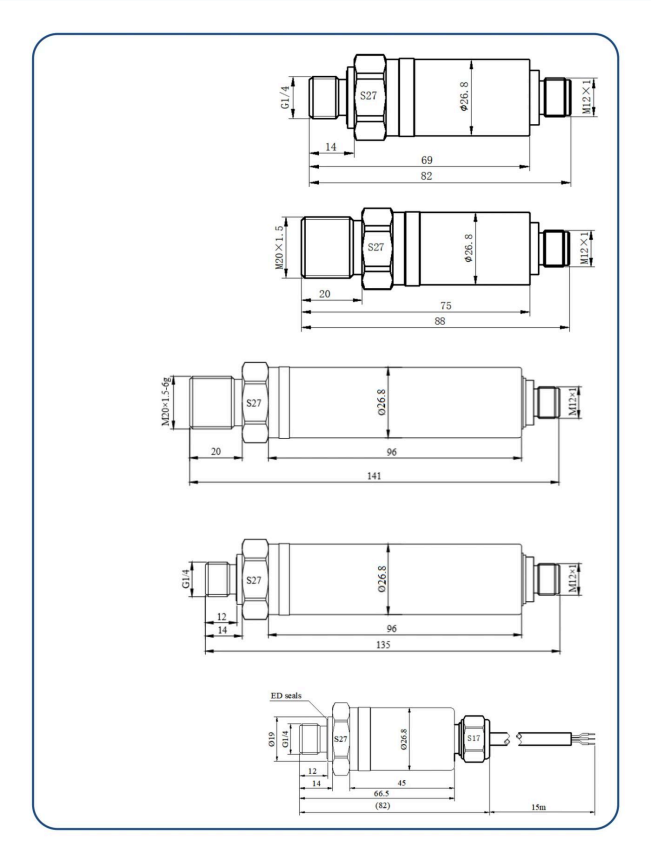
Mechanical	
IP rating	IP67
Pressure connector	G1/4 male, M20*1.5 male
Applicable fluid	Fluid compatible with 17-4 PH

Ordering and support

Pricing, samples, lead time and custom versions: dwinsales@163.com, +86 181 0280 8901.

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Dimensions and wiring



Drawings are for reference. Dimensions in millimetres unless stated.