Pressure and level transmitters

Digital Level Transmitter, Silicon Resistance, RS485

Model CS-PT482

Cost-effective digital level transmitter with a silicon resistance sensor and RS485 MODBUS output, in ranges from 3.5m to 350m H2O with ±0.5%F.S accuracy.



Range
3.5m / 10.5m

Protection
IP68

Supply voltage
4.5–30VDC / 3–4.1VDC

Features

- Silicon resistance sensor
- RS485 bus and MODBUS protocol
- Wide supply: 4.5–30VDC or 3–4.1VDC
- Gage, absolute or sealed gage type
- Over voltage and reverse protected

Applications

River and lake level measurement, Deep well and groundwater monitoring, Sewage and storm-water basin monitoring, Sewer lift and pumping stations

Specifications

Performance specifications

Reference conditions	Temperature 25°C, power 12VDC, RH 45%~75%, atmospheric pressure 86KPa~106KPa
Standard range (H2O) / proof (H2O), range 1	3.5m / 10.5m
Standard range (H2O) / proof (H2O), range 2	7.0m / 21m
Standard range (H2O) / proof (H2O), range 3	10m / 30m
Standard range (H2O) / proof (H2O), range 4	20m / 60m
Standard range (H2O) / proof (H2O), range 5	40m / 120m

Standard range (H2O) / proof (H2O), range 6	60m / 120m
Standard range (H2O) / proof (H2O), range 7	100m / 200m
Standard range (H2O) / proof (H2O), range 8	200m / 400m
Standard range (H2O) / proof (H2O), range 9	350m / 700m
Pressure type	Default Gage (G), Absolute (A) or Seal Gage (S) optional
Accuracy at 25°C	±0.5%F.S (include linearity, hysteresis, repeatability)
Long-term stability	±0.25%FS/year
Response time	≤10ms

Electrical

Output signal	RS485 Bus and MODBUS Protocol
Supply voltage	4.5–30VDC / 3–4.1VDC
Over voltage	32VDC / 7VDC
Reverse voltage	-32VDC / -7VDC
Supply current	10mA / 7mA
Insulate resistance	≥100MΩ@50VDC

Environmental

Operating temperature	-20°C~60°C
Compensated temperature	0°C~50°C
Storage temperature	-40°C~85°C
Random vibration	10g, 5–2000Hz
Shock	X/Y/Z, 20g, sine 11ms
Drop (any axis)	1m

Mechanical

Waterproof rating	IP68
Housing material	304 stainless steel default, 316L stainless steel and Titanium optional
Seal material	NBR O-Ring default, FKM optional
Cable material	PE default, PUR and FEP optional

Notes

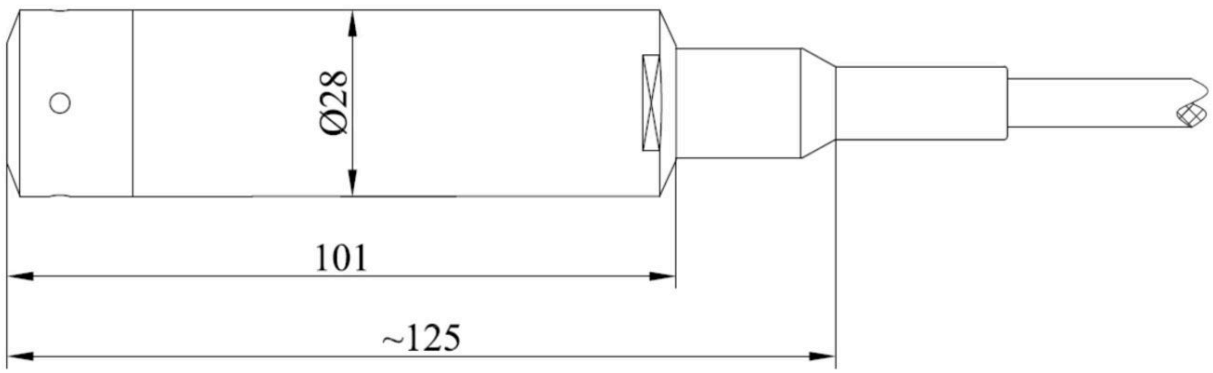
Note 1	Range scaling is as small as 3/5 of the basic range and the minimum range is 3m H2O.
Note 2	All intermediate range output transmitters (but pressure) are implemented with basic range expansion.

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.