

## CS-PT482 Level Transmitter

### Features

- Silicon resistance sensor
- RS485 bus and MODBUS protocol
- Wide Power supply
- Over voltage and Reverse protected
- Cost-effective

### Applications

- Level measurement in rivers and lakes
- Deep well and ground water monitoring
- Level measurement in vessel and storage system
- Monitoring of sewage, settling and storm-water retention basins
- Control of sewer sewage lift and pumping station

### Description

The CS-PT482 transmitter is ideal for price-sensitive industrial level measurements. It uses the latest applications of digital technology in the field of sensor manufacturing, combined with the world's most advanced pressure transmitter design and manufacturing technology, precision digital temperature compensation and nonlinear correction technology, integrated structural design, with RS485 bus, MODBUS protocol output,  $\pm 0.5\%$  F.S accuracy and polyethylene cable, up to IP68 waterproof rating, suitable for all industries need to carry out precision measurement of fluid pressure.

### Performance specifications

Temperature: 25°C, power: 12VDC, RH: 45%~75%, Atmospheric pressure: 86KPa~106KPa

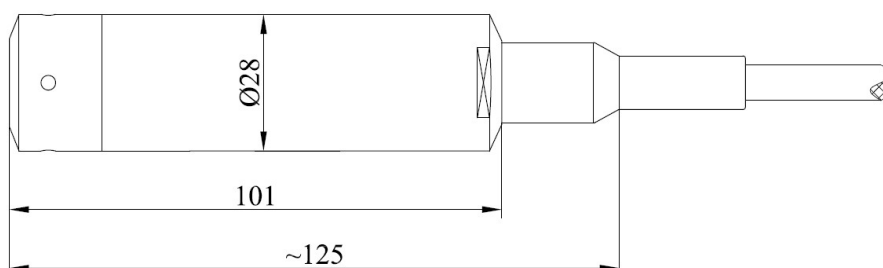
Standard range (H <sub>2</sub> O)	3.5m	7.0m	10 m	20m	40m	60m	100m	200m	350m
Proof (H <sub>2</sub> O)	10.5m	21m	30m	60m	120m	120 m	200 m	400 m	700 m
Pressure type	Default Gage (G), Absolute (A) or Seal Gage (S) optional								
Accuracy at 25°C	$\pm 0.5\%$ F.S(include linearity, hysteresis, repeatability)								
Long-term stability.	$\pm 0.25\%$ FS/year								
Response Time	$\leq 10\text{ms}$								
Operating Temperature	$-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$								
Compensated Temperature	$0^{\circ}\text{C} \sim 50^{\circ}\text{C}$								
Storage Temperature	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$								
Output Signal	RS485Bus 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	$\geq 100\text{M}\Omega @ 50\text{VDC}$	
Waterproof Rating	IP68	
Random Vibration	10g, 5~2000Hz	
Shock	X/Y/Z, 20g, sine 11ms	
Drop (any Axis)	1m	
Housing material	304 stain steel default, 316L stain steel and Titanium optional	
Seal material	NBR O-Ring default, FKM optional	
Cable material	PE default, PUR and FEP optional	

Note 1: Range scaling is as small as 3/5 of the basic range and the minimum range is 3m H<sub>2</sub>O;

Note 2: All intermediate range output transmitters (but pressure) are implemented with basic range expansion.

### Structure and Dimension (mm)



### Electrical connection

	Line color	Line define
	Red	Supply power (U+)
	Green /Blue	RS485+
	White	RS485-
	Black	GND
	Yellow	Shield (PE)

### Notes

1, Prohibit configuring product when auto upload function was opened. This operation can lead to product work unmoral.

- 2, Use the pressure sensor to test the medium which have no corrosion to its housing and seal material.
- 3, Cannot use sharp tools to clean the pressure hole when the hole of the pressure sensor is blocked. The pressure sensor shall be removed from system and put the pressure hole part into the fluid which can dissolve the blocking substance.
- 4, In order to protect the transmitter used at areas with many lightning, suggest adding a lightning protection device and reliably connecting the shield line to EARTH.
- 5, cable length of more than 30 meters, it is recommended to choose a cable with reinforcement to carry the weight of the cable itself.
- 6, the level probe in the use of heavy objects (e.g. garbage, plastic bags, etc.), may pull off the level probe and cable. Please inform the manufacturer in advance of the choice of a solution suitable for the installation scenario.
- 7, for other need contact factory.