Pressure and level transmitters

# Digital Submersible Level Transmitter, RS485 Modbus

Model CS-PT480

Digital submersible level transmitter with a diffused silicon sensor, RS485 bus and MODBUS protocol, 0–1...350mH2O range and ±0.25%F.S or ±0.5%F.S accuracy.



| Range | Accuracy |
|---|---|
| 0–1...350mH2O (customized) | (±0.5%F.S, ±0.25%F.S)@25°C |
| **Output** | **Supply voltage** |
| RS485 | 12–30Vdc |

## Features

- RS485 bus and MODBUS protocol
- Supply 12–30Vdc or 3.1–4.2Vdc
- 304 stainless steel default, 316L or titanium optional
- Cable in PE, PUR or FEP
- Intrinsically safe type available

## Applications

Deep water level measurement, Hydrological monitoring, Water tank level monitoring, Water-saving irrigation, Circulating fluid monitoring

## Specifications

### Performance

| | |
|---|---|
| Measure range | 0–1...350mH2O (customized) |
| Overload pressure | 1.5×RP (rated pressure) |
| Broken pressure | 3.0×RP (rated pressure) |
| Accuracy | (±0.5%F.S, ±0.25%F.S)@25°C |
| Long term stability | ±0.25%F.S/year |
| Response time | 10ms |
| Pressure form | Gauge G, Absolute A |

### Electrical

| | |
|---|---|
| Output signal | RS485 |

| | |
|---|---|
| Power supply (12~30Vdc variant) | 12–30Vdc |
| Power supply (3.1~4.2Vdc variant) | 3.1–4.2Vdc |
| Over voltage (12~30Vdc variant) | 32Vdc |
| Over voltage (3.1~4.2Vdc variant) | 7Vdc |
| Reverse voltage (12~30Vdc variant) | -32Vdc |
| Reverse voltage (3.1~4.2Vdc variant) | -7Vdc |
| Supply current (12~30Vdc variant) | <10mA |
| Supply current (3.1~4.2Vdc variant) | <7mA |
| Insulation | >100M Ω@50V |

**Environmental**

| | |
|---|---|
| Operate temperature | -40°C~+85°C (according to O-ring and cable) |
| Compensation temperature | -10°C~80°C |
| Random vibration | 10g, 5–2000Hz |
| Shock | X/Y/Z, 20g, sine 11ms |

**Mechanical**

| | |
|---|---|
| Media compatibility | 304 stainless steel default, 316L stainless steel and Titanium optional |
| Seal material | NBR O-Ring default, FKM optional |
| Electrical connector | IP68 |
| Pressure port | Embedded type (customized) |
| Cable material | PE default, PUR and FEP optional |
| Weight (excluding cable) | ~250g |

**Compliance**

| | |
|---|---|
| Compliant | CE, UKCA |
| EMC | EN: 61326-1 |

**Ordering information**

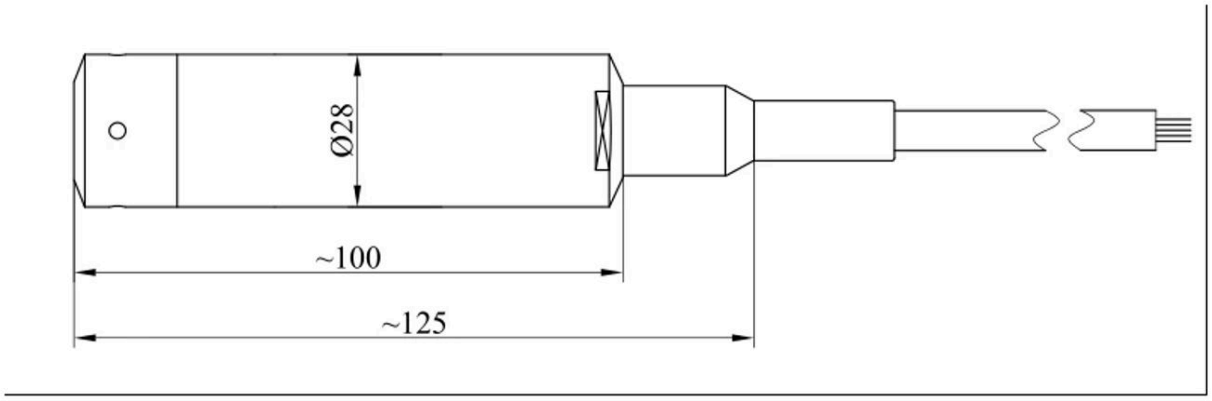
| | |
|---|---|
| Measurement range code | 001Y 0-1m; 002Y 0-2m; 005Y 0-5m; 006Y 0-6m; 010Y 0-10m; 050Y 0-50m; 100Y 0-100m; 200Y 0-200m; 350Y 0-350m |
| Accuracy code | 2 ±0.25%F.S; 5 ±0.5%F.S |
| Output signal code | S RS485 |
| Power supply code | 13 12–30VDC; 24 3.1–4.2VDC |
| Seal material code | N NBR; H HNBR; C CR; F FKM; W Welded structure |
| Cable material code | PE PE; PU PUR; F4 FEP |
| Cable length code | 01 1m; 02 2m; 04 4m; 05 5m; XX (blank) |

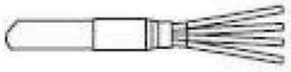
## Ordering and support

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

Guangzhou Dwin Technology Co., Ltd., 4th Floor, Building 2, No. 4 Xingye Road, Xiaowu Second Industrial Zone, Dongyong Town, Nansha District, Guangzhou, China. Specifications are typical values and may change without notice; confirm critical values with DWIN before design-in. Revision 2026-11.

## Dimensions and wiring



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

Drawings are for reference. Dimensions in millimetres unless stated.