

PCM9880L Submersible Wireless Level Transmitter

Key features and user value

- Supporting NB-IoT/4G/LoRaWAN wireless communication standards, suitable for various scenarios
- Supporting keypad, local and remote parameter setting, supporting the magnetic bar wake-up function; convenient daily use and maintenance
- Hardware: high resistance to vibration, shock, and interference; software: built-in watchdog, ensuring zero crashes; high reliability and good repeatability
- Real-time active report on alarm information, such as abnormal fluctuation and exceeded threshold value of the monitoring point liquid level
- Optimized ultra-low power consumption design; reducing battery replacement frequency and significantly lowering users' maintenance costs
- Accessible to the third-party monitoring platform; supporting Telecom AEP platform, Alibaba Cloud platform, and customer private platforms

Typical application industries

- Fire protection, municipal administration, water affairs, environmental protection, and other industries

Notes:

1 Do not misuse the document. This document is a product selection guide. Do not use this document as a product installation guide.

2 Complete installation, operation, and maintenance information is provided in the instructions of the product.

3 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.

4 Misuse of the product may cause danger or personal injury.



Product overview

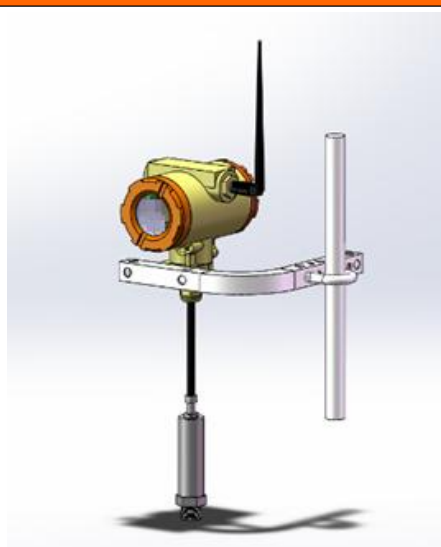
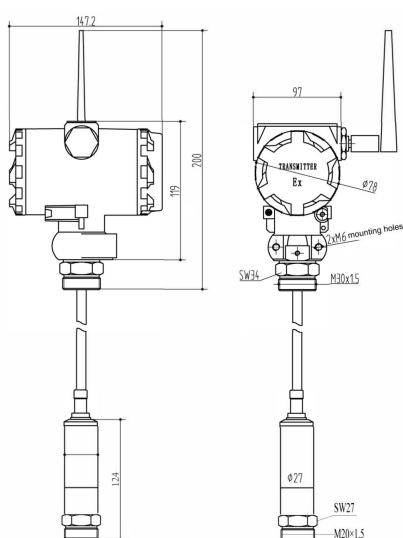
The PCM9880L Submersible Wireless Level Transmitter is a product specially designed by Wotian Technology for level monitoring, such as pool and deep well level monitoring. This product has an IP68 sensor protection grade. It can be directly immersed in the measured liquid and support pipeline mounting or submersible mounting. It is small in size, light in weight, and easy to install, use, and maintain, suitable for many harsh environments.

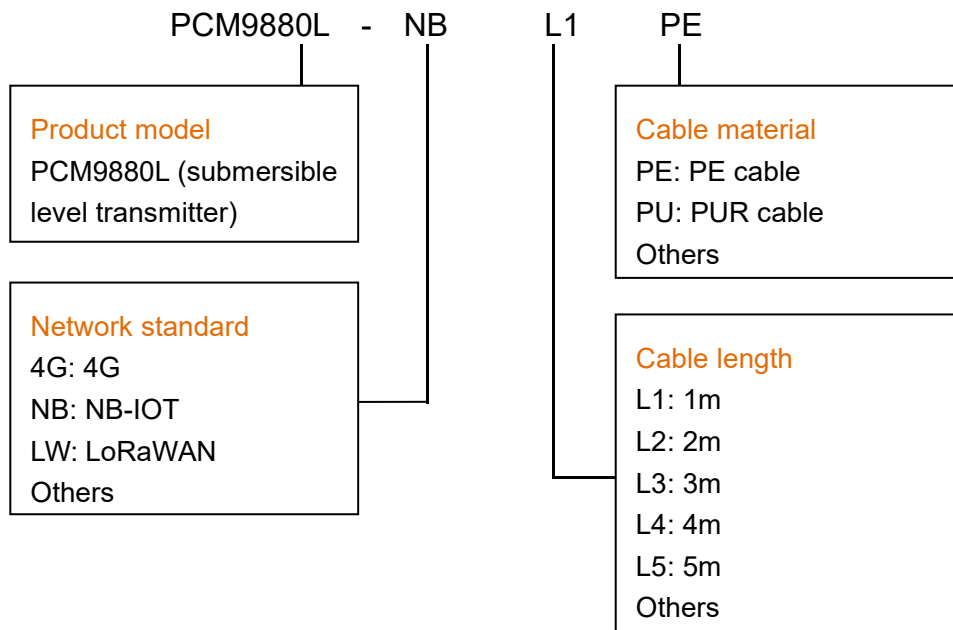
PCM9880L uses a 38Ah large-capacity lithium sub-battery for power supply and supports various IoT standards, including NB IoT, LoRaWAN, 4G, etc. The product is widely used for level monitoring in outdoor environments or in environments with inconvenient power supply, such as fire protection, municipal, and water affairs. It sends the liquid level condition of monitoring points to the monitoring center through IoT periodically or in real time, and then the monitoring center stores, analyzes, searches data, and processes alarm information, realizing wireless signal transmission and information interaction without on-site wiring, saving a lot of human and material resources, and significantly reducing construction costs and maintenance costs, which helps users achieve timely and efficient supervision on the level at the pipe network monitoring points.

Performance parameters

Pressure range	0~0.5m...15m H2O
Liquid level type	Medium level at atmospheric pressure
Supply & output signal	Power supply: lithium sub-battery (38Ah) or solar energy Output signal: NB-IoT/4G/LoRaWAN
Operating temp.	-20°C~70°C (The low temperature below zero has great influence on the performance of lithium sub-battery.)
Medium temp.	-20°C~85°C
Storage temp.	-40°C~125°C
Zero temp. coefficient	±1.5%FS (-20°C~85°C)
Sensitivity temp. coefficient	±1.5%FS (-20°C~85°C)
Overpressure	150%FS
Mechanical vibration	20g (20~5000Hz)
Shock	100g (11ms)
Comprehensive accuracy	0.5 level
Operation mode	Regular active report; the reporting cycle can be set at will
Automatic detection	Built-in monitoring module to monitor the operation of the equipment
Parameter setting	Remote setting, which allows setting the reporting cycle and threshold alert
Sampling accuracy	24bit
Long-term stability	±0.2%FS/year
Protection grade	Gauge head part: IP66/67; submersible sensor part: IP68
Material	Housing: stainless steel; internal sensor: 316L
Medium compatibility	All kinds of media compatible with SS316L
ESD	Meeting GB/T17626.2 Chapter 5 Severity Level: Level 4
RFEMS	Meeting GB/T17626.3 Chapter 5 Severity Level: Level 3
PFMF	Meeting GB/T17626.4 Chapter 5 Severity Level: Level 5

Structural dimension (Unit: mm) and L-type bracket installation instruction



**Example:** PCM9880L-NBL5PE

Refer to product model PCM9880L submersible level transmitter, with network standard NB-IOT, measuring liquid level 5m, using the PE cable.

Ordering tips

- 1 It takes several steps to select the product: wireless standard, pressure range, cable length, cable material, and pressure port.
- 2 Equipped with 2m PE cable by default, and cables over 5m need to be customized.

Wotian reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.

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