

# Datalogger PT500 V3 /V4

## OVERVIEW

PT500 series IP MODEM is an IoT wireless data terminal, which utilizes 4G LTE public cellular network to provide users with wireless long-distance data transmission function.

This product adopts high-performance industrial-grade 32-bit MCU processor unit and industrial-grade wireless module, uses embedded real-time operating system as the software support platform, and provides RS232 and RS485 interfaces at the same time, which can be directly connected to serial devices to realize data transparent transmission function; low power consumption design, the average current is less than 50mA@12VDC during operation; provides 2 analog input channels, which supports thermocouple/ 4-20mA/ voltage/ pressure/ lever sensor measurement, and 1 channel of digital I/O, which can realize digital input and output, pulse counting, pulse output, and other functions. The internal memory size is 2M Bytes, is a SPI flash.

This product can be widely used in M2M industries in the IoT industry chain, such as smart grid, smart transportation, agriculture, forestry, water affairs, coal mining, petrochemical, industrial automation, smart buildings, fire protection, environmental protection, meteorology, remote sensing survey, and other fields.

## HIGHLIGHT ADD-ON FEATURES:

- 1 channel 4-20mA current measurement/sensor interface, ability to measure pressure/level sensor
- 1 channel thermocouple temperature measurement, ability to read a J/K thermo coupler sensor or 1 channel 4-20 mA (version v4)
- 1 channel pulse counter, ability to count a flow meter's flow volume
- RS485 interface, ability to read a ultrasonic flow meter 's reading, etc
- Support FTP reporting to cloud data center. Reported .csv file can be generated on the fly

## 4G-LTE FREQUENCY BAND SUPPORTS

- P4G-LTE frequency band supports:
- LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71
- LTE TDD: B40
- WCDMA: B2/B4/B5
- GSM: B2/B3/B5/B8



## POWER & COMSUPTION

- Standard power (default): DC 12V/1A
- Power supply range: DC + 9V ~ +28V
- Current Consumption: 30~300mA@12VDC, depending on operating states
- Operating temperature: -20 ~ +70°C
- Storage temperature: -30 ~ +80°C
- Relative humidity: 95% ( no condensation )

## SIZE & WEIGHT

- Shell: Metal shell, protection class IP30 .
- Dimensions: 91x58.5x22 mm ( excluding antenna and mounting hardware )
- Weight: about 210g

## TERMINAL SIGNALS

T 12	T 11	T 10 (*)	T 9 (*)	T 8	T 7	T 6	T 5	T 4	T 3	T 2	T 1
Analog Input 4-20mA	Analog Input 4-20mA	Analog Input Termo coupler o 4-20 mA	Analog Input Termo coupler o 4-20 mA	Counter Input	Signal ground	RS232C TXD	RS232C RXD	RS485 B	RS485 A	Power +	Ground

(\*): Depend of version

## ACCESSORIES

- IP67 BOX (Heavy outdoor conditions)
- High Gain Antenna
- Mini UPS
- Pole Support Box integrated in the back side
- Easy plug Cable conector for sensor (female & male)
- Kit TX/RX Radio pair. Wireless Bridge to connect remote (up to 500 mts) 4-20 mA sensors



Kit TX/RX Radio pair.



Pole Support



IP67 BBOX

## BUNDLES

- Datalogger 4G model PT500 + IP67 Box w/pole support + Mini UPS
- Datalogger 4G model PT500 + IP67 Box wo/pole support + Mini UPS

## PRE-CONFIGURED PT500

- PT500 V3 for Well Deep (2 paremeters)
  - ▶ Water flow => from counter pulse or RS458
  - ▶ Level pressure probe => from Leve probe putput signal 4-20 mA
- PT500 V4 for Well Deep (3 paremeters)
  - ▶ Water flow => from counter pulse or RS458
  - ▶ Level pressure probe => from Level probe w/output signal 4-20 mA
  - ▶ Pressure pipe => from pressure transducer w/output signal 4-20 mA

## SOFTWARE

- Software Config, if it ´s a pre-configured, the user just select rate counter pulse and max level pressure
- Software on Cloud, if it ´s a preconfigured, the user can check your data on cloud easily



Kit TX/RX Radio pair.



Pole Support



IP67 BBOX