PC500

Programmable Controller

PC500 allows you to **set all the operating parameters of road studs or road signs.** The controllers **menus are dynamic** and will be presented depending on the **user-selected configuration.**

The configuration can be made directly on the controller on their display menu or via configuration software that allows you to set all the operating parameters of the controller via a USB interface.



Relay Output Dry Contact



Analog Inputs
Up to 4

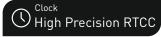


Protection Index

| P65
| depending on the configuration

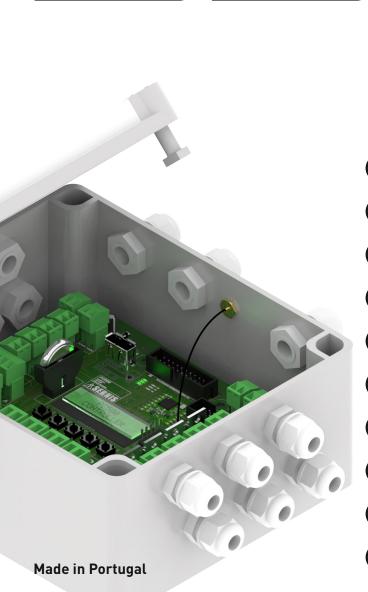


By Expansion Boards



Communications
TTL, RS422, RS485
USB, SPI, ETHERNET,
RF 433/868/915 MHZ,
LORA







Microcontroller based technology

Firmware update available through USB connection

Hardware upgrade by connectable expansion boards

Adaptive controller to numerous applications

Configuration via **LCD display and navigation buttons** or via **configuration software**

Ability to schedule different configurations due to its high precision real time clock

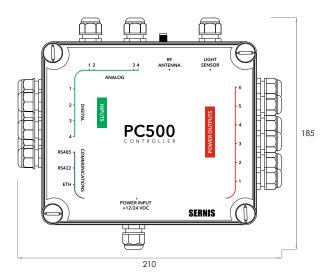
High diversity of communications available RS232, RS422, RS485, USB, SPI, ETHERNET, RF433/686/915 MHZ, LORA

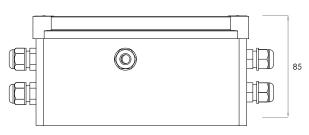
12V or 24V input power with over voltage and short circuit protection

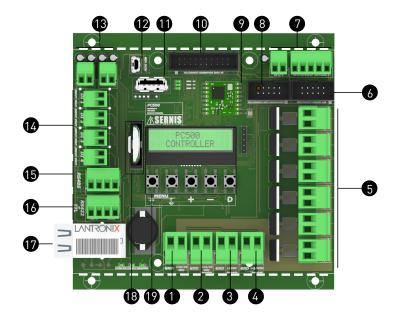
Digital outputs with short circuit and over temperature protection, available in 24V, 12V.

Digital inputs with voltage isolation, driven by voltage or dry contact

Technical Features







Outputs Modes of Operation

Always On, Flashing or Sequential

(Other modes available upon request)

Electrical Features

Power Supply	12 V DC to 24V DC
Current Consumption	15 mA ¹
Output Voltage	12 V DC to 24V DC
Outputs Number	6 (Expandable up to 12)
Maximum Current by Output	2A
Total Maximum Output	10A
Current	
Working Temperature	-25 °C to +85°C
(1) Minimum Stand By consumption. The Stand By current consumption may increase depending of the PC500 configuration.	

Mechanical Features

Enclosure Material: Thermoplastic **Dimensions:** 210 x 185 x 85 mm

Protection Index: IP65 Weight: 0,550 Kg

Controller Details

- 1 12V DC or 24V DC Power Input
- 2 12V DC or 24V DC Power Output (máx. 0.5A)
- 3 5V DC Power Output (máx. 0.5A)
- 4 3,3V DC Power Output (máx. 0.5A)
- 5 Up to 6 Digital Outputs (Power or PWM)
- 6 SPI Connector
- 7 Light Sensor Input Connector
- 8 10 Pin Expansion Connector
- 9 Low Power RF 433/868/915 MHz Module
- 10 20 Pin Expansion Connector
- 11 USB Type A connector
- 12 Mini USB connector
- 13 Up to 4 Analog Inputs
- 14 Up to 4 Digital Inputs
- 15 RS485 Communication
- 16 RS422 or TTL Communication
- 17 Ethernet Communication Module
- 18 High Precision Clock
- 19 Configuration Menus (LCD + Buttons)





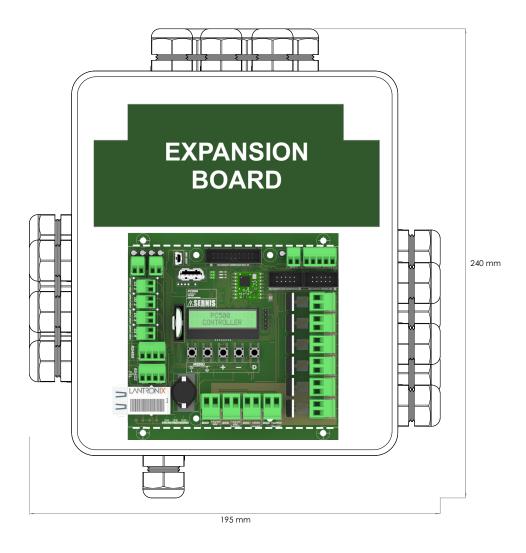


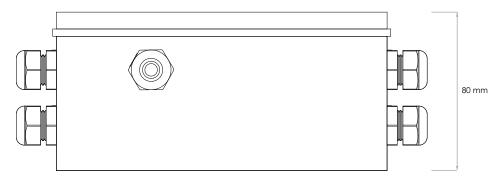


Plus Version

The PC500 controller **Plus Version** refers to the standard version with an expansion board. The plus version box is slightly larger.

DIMENSIONS











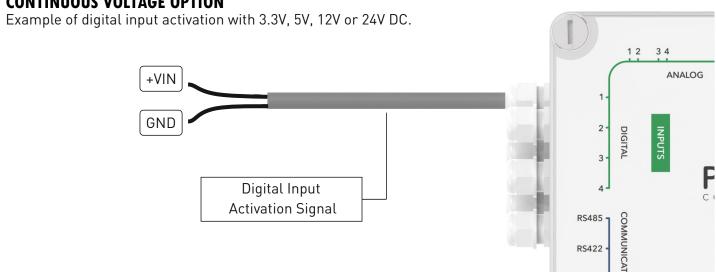




Digital Input Activation Options

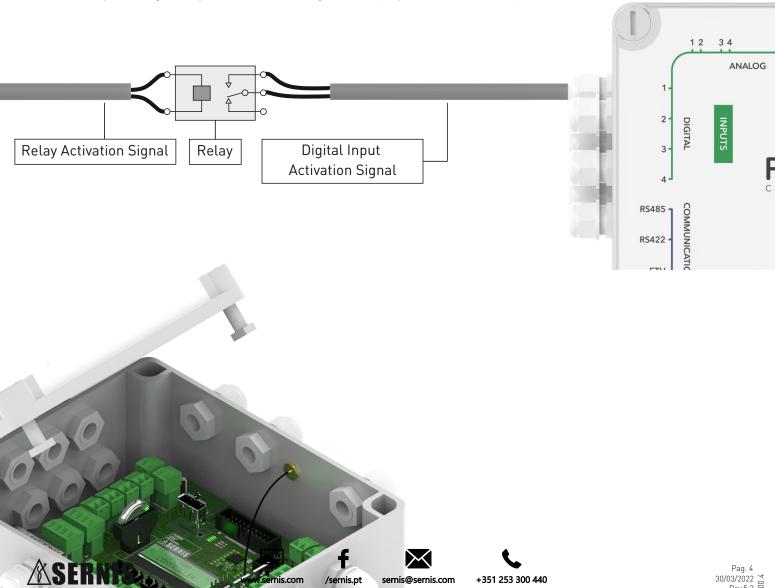
The digital inputs of the PC500 controller may be driven by voltage or dry contact. If the digital inputs are to be driven by voltage, when ordering the selected voltage must be mentioned. Its possible to select between 3.3V, 5V, 12V or 24V DC (default is 5V)

CONTINUOUS VOLTAGE OPTION



DRY CONTACT OPTION

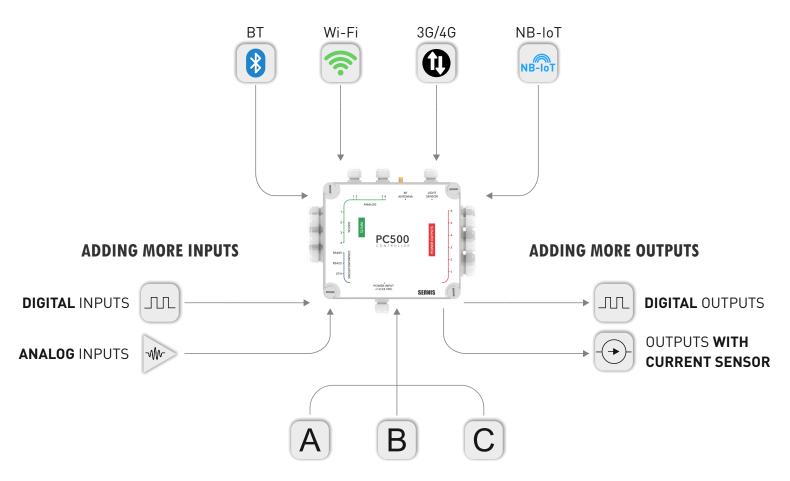




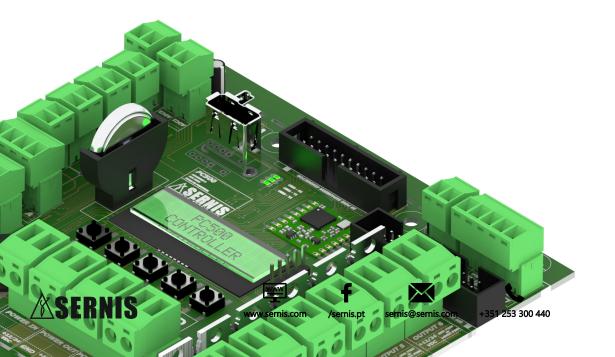
Expansion Boards

Due to its expansion capability its possible to connect expansion boards to PC500 that add extra features in case that the ones already included in PC500 doesn't suit the needs of the project. Among others features its possible to add:

ADDING MORE COMMUNICATIONS

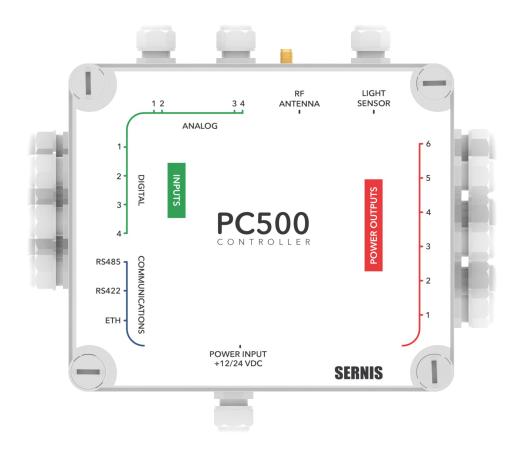


OTHERS BY REQUEST



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Product Photos







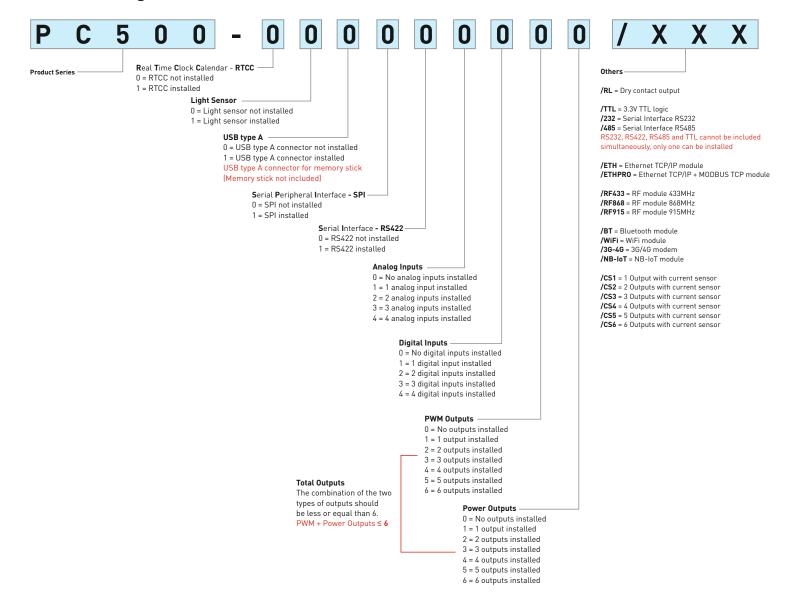








Ordering Information



Example: PC500 with light sensor, 2 digital inputs, 4 power outputs and Eternet TCP/IP module

P C 5 0 0 - 0 1 0 0 0 0 2 0 4 / E T H

Example: PC500 with light sensor, 3 digital inputs, 5 pwm outputs, 1 power output, relay and RS485 communication



