

AQUALABO

MODULE 4001 BOX OF COMMUNICATION AND POWER SUPPLY **MONO AND MULTICHANNEL MODBUS**



Destined to the permanent instrument installations and supplementing the offer of digital sensors PONSEL, the junction boxes mono and multichannel PONSEL are easy to install. The module 4001 allows the connection of digital sensors PONSEL with all types of dataloggers, transmitter and remote systems or automates with an input Modbus RS485.

- Robust and watertight box
- 1 to 5 inputs Modbus RS485 sensors
- Input / Output signal Modbus – SDI12
- 1 cable for a connection on an ODEON

TECHNICAL SPECIFICATIONS MODULE 4001

- **Box:** ABS
- **Protection:** IP 67
- **Number of Input Modbus RS 485:** 1 to 5 sensors
- **Interfacing at communication Network Modbus/ SDI12:** 2 clamp fitting PG11 (the Module 4001 can be a relay at the signal Modbus RS 485)
- **Inputs sensors:** Clamp fitting PG9
- **Connection to ODEON:** 1 connector with tight stopper to connect one ODEON
- **Operating Temperature range:** - 25°C to + 55 °C
- **Dimensions (H x L x P):** • without fixing system: 144 x 176 x 85 mm • with fixing system: 215 x 146 x 90 mm
- **Weight:** 950 g
- **Power supply:** Power supply sensors 5-12 V
- **Consumption max. :** Depends on connected sensors



EXAMPLE OF AN INSTALLATION

AUTOMATE REMOTE SYSTEMS

Power supply sensor
Reception data of sensor



NETWORK MODBUS RS485

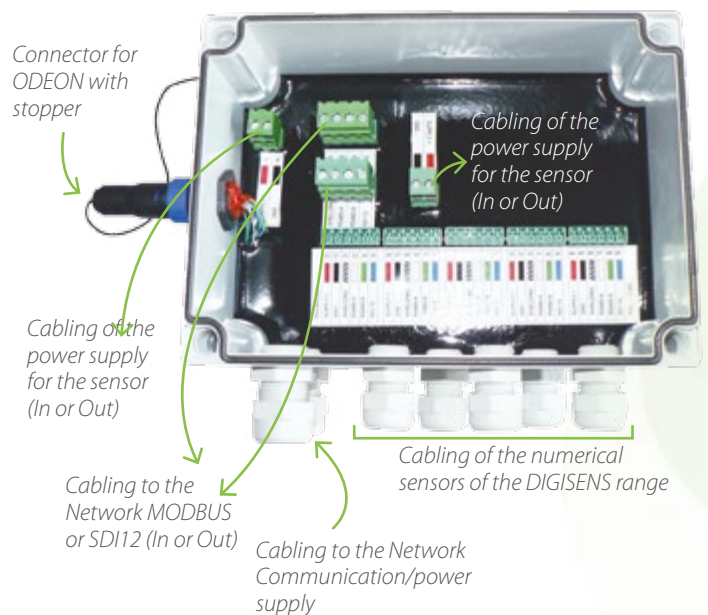
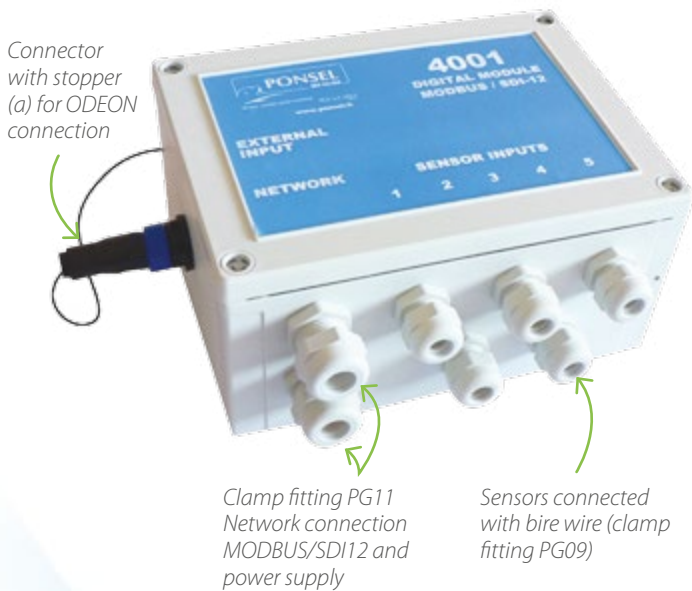
The module 4001 is compatible with all the sensors Modbus RS485 from PONSEL according to the following offer : sensor OPTOD (dissolved oxygen/ Temperature), NTU (Turbidity Nephelometric), C4E (conductivity/salinity), pHEHT (pH, Redox, Temperature). The bus RS485 must be linear and is guaranteed functional on a maximal distance of 1 km with a cable in pair twisted armored (type AWG26 for example).

In the case of an installation with several Module 4001, it is advised to install a resistance of 120Ω At the end of line RS485 (between the signal A and B of the last Module).

In case of disturbances on the line Modbus, a repeater RS485 can be necessary.

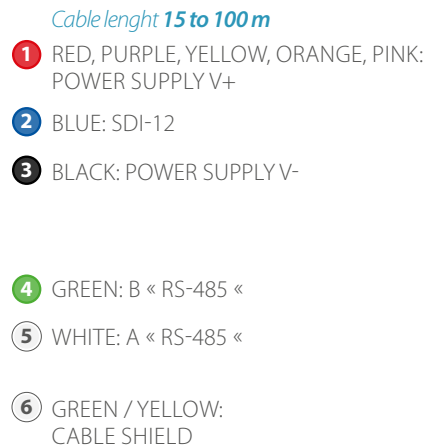
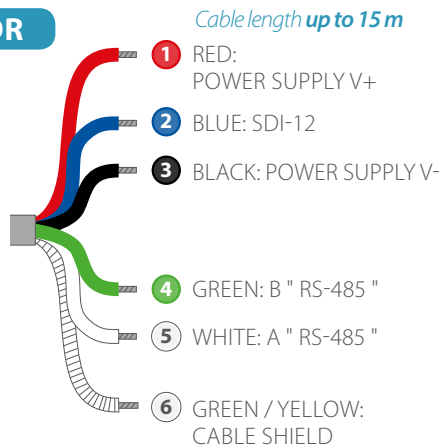
DESCRIPTION CONNECTIONS

CABLING OF MODULE 4001



CONNECTION

SENSOR



NETWORK

For more information on power supply, consumption of the sensors, consult the datasheet of the concerned sensor