2.1.2.- Configuration by temporal IP from MAC
Before setting a fixed IP or a DHCP, you have to set a temporary and available IP in the same range that your computer in order to configure the device. Insert the IP in the address field, check the checkbox set IP from MAC and, enter the MAC address shown on the permanent side label attached to the device, the format of which is 00:26:45:XX:XX:XX. Do the same with the Netmask and the Gateway if necessary, and press Configuration.

2.1.3.- Configuration by IP
If you know the IP assigned by the router write it in the address field and press configuration button.

2.2.- Configuration
You have to choose between: Fixed IP or IP by DHCP.

2.2.1.- Fixed IP
Insert the fixed IP in the IP address field, do the same with the Netmask and the Gateway.

2.2.2.- IP by DHCP
Check the DHCP checkbox and leave the other fields in blank.

2.2.3.- Choose Protocol and Port
Set always ModbusTCP as protocol and 502 as port.

2.2.4.- Other Fields
When you choose the Modbus Tcp the other fields get automatically the right values: 9600, 8,None & 1, as you can see in the picture.

2.2.5.- Tx Delay Rx Time
Set always TX delay in blank and RX as 250.

2.2.6.- Save changes
Once any change has been made to the aforementioned sections, the information must be saved using the "Configure" button.
3.- Technical features

Power circuit
- Frequency: 47 - 63 Hz
- Earth connection terminal
- 9 VA
- Working temperature: -10 - 60 ºC
- Humidity (no condensation): 5 - 95 %

Mechanical features
- Case material: UL94 - V0 self-extinguishing plastic
- Unit protection degree: IP20
- Dimensions (mm): 35,4 x 73 x 84,68 mm (2 modules)
- Weight: 120 g
- Maximum operating height: 2000 m

Network interface
- Type: Ethernet 10BaseT / 100BaseTX self-detecting
- Connector: RJ45
- Network Protocols - Accesses: TCP / UDP / Modbus/TCP - HTTP

Serial interface
- Type: RS-485 three-wires (A+/S GND/B-)
- Transmission speed (configurable): 1.2, 2.4, 4.8, 9.6, 19.2, 34.8, 57.6, 115.2 bps
- Data bits: 7, 8
- Parity: No parity, odd, even
- Stop bit: 1 or 2

LED symbols
- Power LED: Powered unit and CPU activity
- RX/TX: RS-485 frame delivery and reception activity
- Link/activity: Flashing Activity in the Ethernet bus
- Green: Speed 10/100 Mbit/s

Standards
- IEC 60664, VDE 0110, UL 94, EN61010-1, EN55011, EN61000-4-3, EN61000-4-4, EN61000-4-5, CE

Safety
- Installation category: Category III / EN61010 double-insulated electric shock protection class II. The unit must be connected to a power circuit protected with type gl fuses, in compliance with IEC 269, or type M, with values from 0.5 to 1A.
- It must be fitted with a circuit breaker switch or equivalent device in order to be able to disconnect the unit from the power supply. The power supply cable must have a minimum cross-section of 1 mm².
- If the unit is not operated according to the manufacturer’s specifications, its guaranteed degree of protection may be compromised.

4.- Connections

The AKO-5012 web server supports up to 10 AKO-80080 converters and the AKO-5014 web server supports up to 2. Terminating resistors are not required.