DY-5121
Protocol Converter
ModBUS TCP/RTU WebSCADA 3
Installation Manual

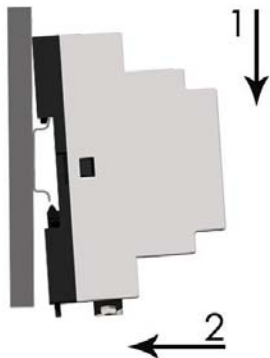### Revision 3.0

DIN Rail Mounting

A – Snap on   **B – Snap off**

Indicators

Name	Colour	Function
Module Status	OFF	No power
	Green	Module is running in normal mode
	Orange	Hardware error
	Flashing Orange	Error during initialization
Serial Link Status	Flashing Green	Serial Packet receive
	Flashing Red	Serial Packet transmit
	Orange	During boot-up
Ethernet Activity/Collision	Flashing Green	Ethernet Packet received
	Flashing Red	Ethernet Collision detected
Link	OFF	No Ethernet Link detected
	Green	Ethernet network detected, 10Mbps
	Orange	Ethernet network detected, 100Mbps

Connectors

Serial interface
(DSUB-9, RS-232)

Ethernet interface
(RJ-45, 10/100Mbps)

Power
Supply

Serial interface RS-485

Power supply/Digital Inputs/RS232/RS485 terminal connections

Pin number	Function
13	RS-485, Line B
14	RS-485, Line A
15	Communications Common
16	RS-232 Transmit
17	RS-232 Receive
18	Not connected
19	Not connected
20	Digital Input Common
21	Digital Input 1 + (10…24 Vdc)
22	Digital Input 2 + (10…24 Vdc)
23	Vin -
24	Vin +

ModbusRTU interface, RS-232

Pin number	Function
1	Not used
2	Rx (Receive)
3	Tx (Transmit)
4	Not used
5	GND
6, 7, 8, 9	Not used

Configuration

About the Config utility

The Config utility is a PC-based configuration utility to set TCP/IP network settings in the device. This utility has the ability to scan the Ethernet network to find the connected devices and let the user set IP-address, net mask, protocol converter, DNS and hostname for each unit.

Documentation

It is advised that you always check our Internet site (www.ascontecnologic.com) for the more current updates. Access the site, choose the English version by clicking on the English flag and choosing English site. Select *Download/Documentation*, and fill the table with: **Typology:** Manual, **Type:** User, **Language:** EN • English and code: DY-5121. **Click: "*SEARCH*" and download the file:** *ISTR_I_DY5121_E_03_--.p*df.

Installation Procedure

Download the program: **Ascon_SW_DY-5xx1_Config.zip** from the site www.ascontecnologic.com (section *download/software*). Install and run it.

Note: the first time you enter the Software Download area, you need to register yourself, by clicking on the register button.
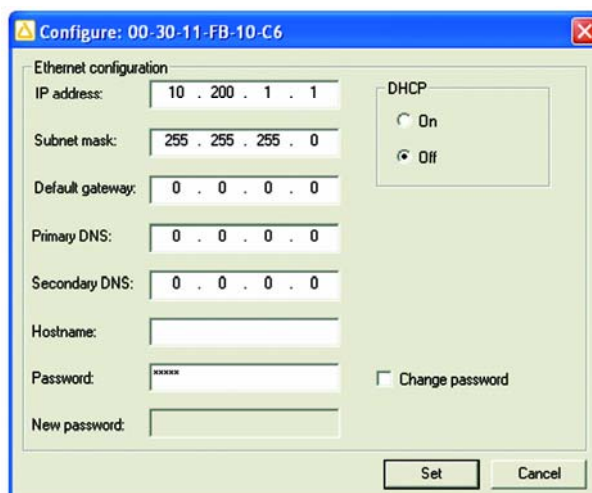
Scanning for connected devices

First ensure that you have connected the devices you want to install on the same Ethernet network as the PC is connected to. Use standard Ethernet cables, straight-through or crossover cable depending on how you connect to the device. See pictures below for details.

Changing IP settings

To change the IP settings on a detected device, double-click on the device you want to configure in the list of devices. This will open up a dialog where you can enter the desired IP configuration.

Note: Do not select the DHCP option if you do not have a DHCP server available on the network.

The default password for authentication of the new settings is "**admin**".

Pressing "**SET**" will cause the device to reboot and after that the new settings will be enabled.

Note: You can test the new settings by opening a web-browser and enter the IP you have just selected. If you selected DHCP and want to know what IP your device has been assigned, you can do a new scan with the Config utility to view the network configuration information.

Technical details

Power Supply
9…28 Vac/dc (1.7W)

Temperature range
Operating: -40… +85.0 °C
Storage: -40… +85.0 °C

Humidity range
5… 93% RH, non-condensing

Mounting option
DIN rail (EN 50022)

CE certification
According to EN 50 081-2:1993 and EN 61000-6-2:1999