Quick Installation Guide

GWA-DLMS ADVANCED GATEWAY

Overview

GWA-DLMS advanced DLMS gateway is compact, DIN-RAIL device that allow you to control read DLMS data by smart meters and to public on MODBUS TCP Server or MODBUS RTU slave port.

Package Checklist

Before installing the GWA-DLMS, verify that the
package contains the following items:
- 1 Gateway Device
- 1 DB9-terminal blocks adapter (COM1 - RS485 port)
- 1 TCC-80 (RS232/RS485 converter) + cable (COM2 - RS232 port)
- Document & Software CD

Hardware Introductions

As shown in the following pictures, GWA-DLMS have 3 Ethernet Ports (10/100/1000 Mbps) and 2 serial ports with DB9 connector. COM1 is RS485, COM2 is RS232, both selectable from BIOS.

We supply TCC-80 + 1 meter serial cable to convert COM2 port from RS232 to RS422/485 with terminal blocks.

We supply Screw DB9 adapter to be used on COM1 RS485. Connector's pin 1 is 485(-) and pin 2 is 485(+).

Ethernet ports have following configuration
- LAN1: 192.168.212.239 /24
- LAN2/3: DHCP

Software Installation Info

The GWA-DLMS is supplied with following address configuration on LAN ports:

LAN IP: 192.168.212.239 /24

Accessing and programming is made by U-VNC with password: Admin
To configure DLMS_TO_MODBUS You can follow the "manual configurator" available in the software CD. It explains how to setup software installed on GWA-DLMS in order to convert datas acquired from DLMS meters into standard Modbus RTU or TCP.

Every port COM1, COM2, ETHERNET or SERIAL port on USB (by connecting external devices, for example UPORT1110 or UPORT1130) can be assigned to DLMS or MODBUS inside the software configurator.

If necessary to access to OS the username is Admin, the password is: Admin

Enviroment Specifications

Ethernet Interface: LAN 3 x 10/100/1000 Mbps
Serial Ports: 1 x RS-232, 1 x RS-422/RS-485
Ram: 2Gb
HHD: MSata 32 Gb SSD
Power Input Voltage: 12-24 VDC
Power Consumption: Typical 5.28W, Max 8.16 W
Mechanical: Construction Aluminum housing
Dimensions: (W x H x D) 85 x 30 x 106 mm
Weight: 0.8 kg
Operating Temperature 5 ~ 40° C (41 ~ 122° F)
Storage Temperature -40 ~ 85° C (-40 ~ 185° F)
Relative Humidity 95% @ 40° C (non-condensing)
EMC: CE/FCC Class A, CCC, BSMI
Safety Certifications: UL, CCC, BSMI, CB

Extra

OpenVPN Secure tunnel towards our servers allows a fast, reliable, secure and direct connection to datalogger from our technicians in order to diagnose any communication problem between gateway and meters.

Secure tunnel has to be triggered manually starting OpenVPN client and using following credentials.
username: ovpn-dlms
password: MarcomDLMSvpn@1

Please keep credentials safe and use OpenVPN Secure tunnel only if requested by technicians.

Note about use of optical probes
In order to use optical probes to communicate with meters, serial port "Read Interval Timeout" setting on DLMS software has to be set to 500 ms