

PLUS WGW420 WIRELESS GATEWAY INSTALLATION GUIDE

Table of contents

step

WGW420 PLUS WIRELESS GATEWAY CONFIGURATION

Pages 3 to 11

step

05

WGW420 GATEWAY ANALOG OUTPUTS CONFIGURATION

Pages 12 to 14

WGW420 PLUS WIRELESS GATEWAY CONFIGURATION



WGW420 PLUS WIRELESS GATEWAY CONFIGURATION

TEKON CONFIGURATOR SOFTWARE is only compatible with the Microsoft® Windows® Operating System.

01

Connect the antenna to the Gateway.



02

Wiring

Connect the power supply and then the *RS485-USB* cable to the *Gateway*.



Wire Indication:

Blue - GND; Brown - +24 VDC; Orange - Data+ (A); Black - GND; Yellow - Data - (B)

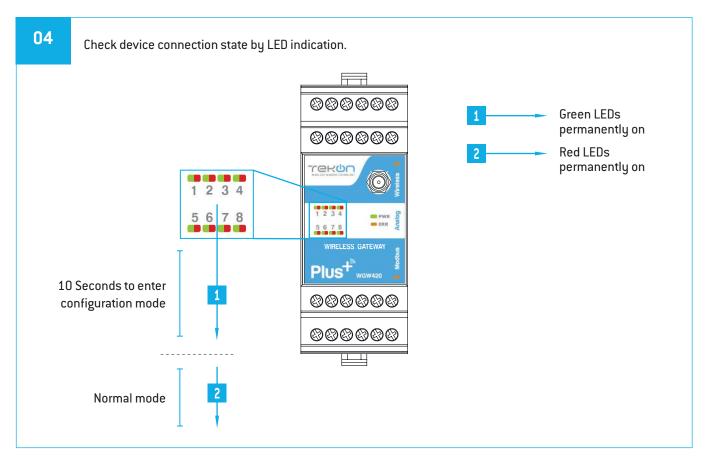
03

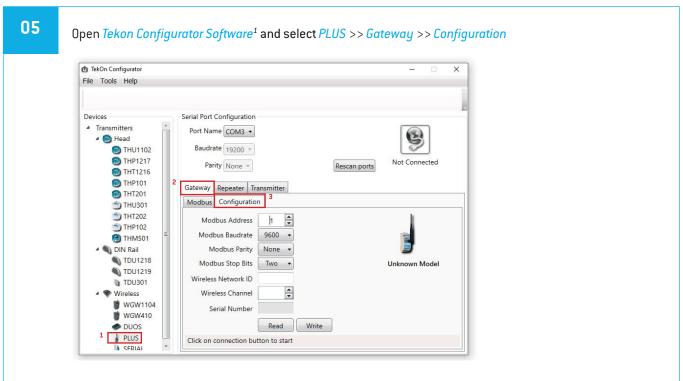
Power ON the device.











¹Tekon Configurator software is free of charge and available at <u>www.tekonelectronics.com</u>

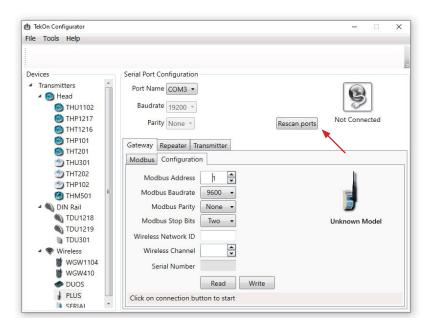
TEKONELECTRONICS.COM



WGW420 PLUS WIRELESS GATEWAY CONFIGURATION

06

Select serial port corresponding to WGW420 PLUS Wireless Gateway Click on the Rescan Ports button.



07

Select corresponding Port name².



² You can check device's serial port name in "Device Manager" on Microsoft ® Windows® operating system.



step 01

08

Perform a power cycle on the Gateway.



NOTE:

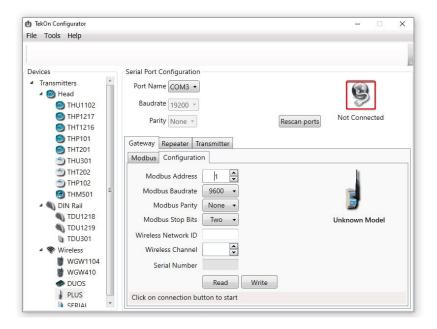


After power up, you have 10 seconds to enter configuration mode by clicking on Connect button () (while green LEDs are permanently on).

In this mode, you can manage device parameters: *Modbus Address*, *Modbus Baudrate*, *Modbus Parity*, *Wireless Network ID* and *Wireless Channel*.

09

Click on Connect () button to enter configuration mode.





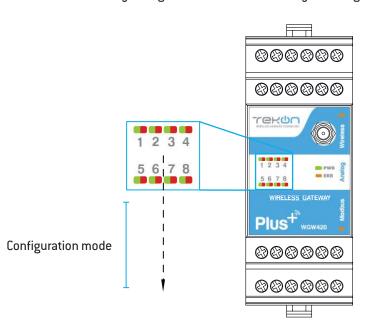
WGW420 PLUS WIRELESS GATEWAY CONFIGURATION

10

The status string at the bottom of the software window provides feedback on ongoing operations.



You can also verify configuration mode activation by checking LEDs on the gateway.



- - - - - Green LEDs performing scan animation



NOTE:

When the 10-second time frame to enter configuration mode is exceeded, the LEDs will turn permanently red and the gateway will enter normal operation mode.

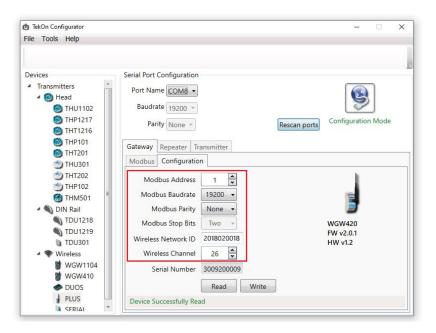
To get back in configuration mode, you need to perform a power cycle - step 8.



step 01

11

Take note of device configuration data available, namely: *Modbus Address*, *Modbus Baudrate*, *Modbus Parity*, *Modbus Stop Bits*, *Wireless Network ID* and *Wireless Channel*.





NOTE:

The wireless network connection between devices is ensured by setting the same *Wireless Network ID* and *Wireless Channel* parameters.

12

Click on Disconnect () button.



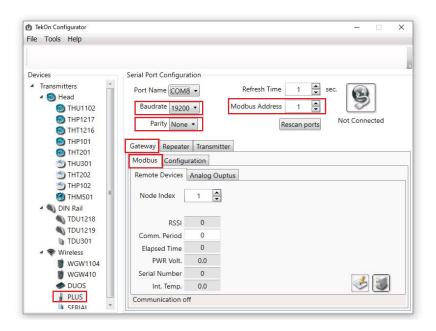


WGW420 PLUS WIRELESS GATEWAY CONFIGURATION

13

Modbus Communication

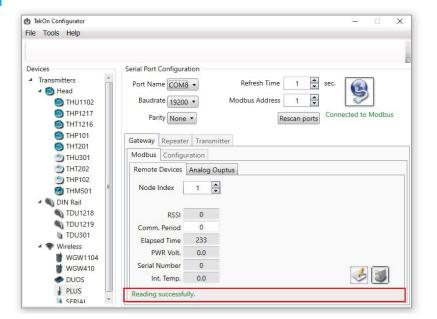
Select Modbus tab of the Gateway and set the previously saved configurations.



Ensure that *Port name*, *Baudrate*, *Parity* and *Modbus Address* fields are the same as those obtained in configuration mode.

14

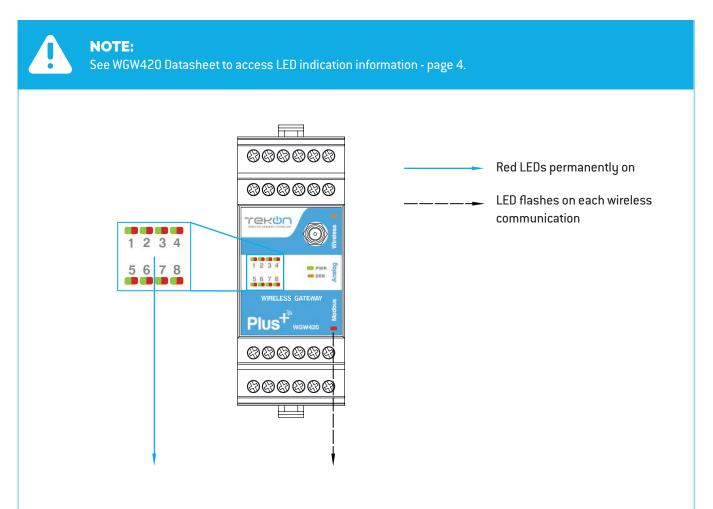
Click on Connect () button and check operation status at the bottom of the window.



The messages *Connected to Modbus* and *Reading successfully* will appear if *Serial Port* configuration parameters are correct and the Modbus connection is established.







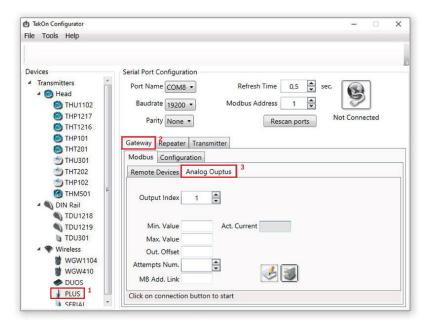
WGW420 GATEWAY ANALOG OUTPUTS CONFIGURATION



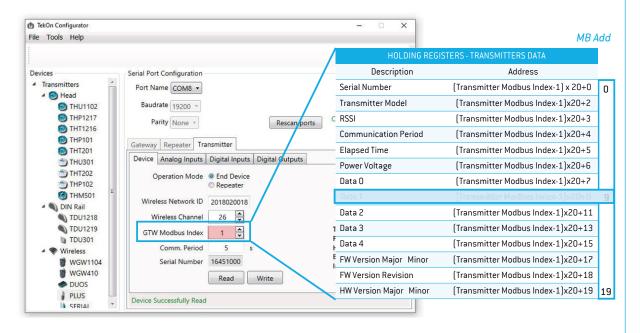
GATEWAY ANALOG OUTPUTS 02

Follow steps 06 and 07 of the PLUS Wireless *Gateway* Configuration.

02 In Tekon Configurator Software select PLUS >> Gateway >> Analog Outputs menu



Considering the transmitter configuration with GTW Modbus Index=1, there is a Gateway Modbus Address Window corresponding to Modbus address window [0-19].





03

NOTE:



GATEWAY ANALOG OUTPUTS

04

Link *Analog Output Index 1* (Gateway) to *Analog Input 1* (Transmitter) and configure MB Add Link according to the previous step. Set minimum and maximum values and click on *Write*

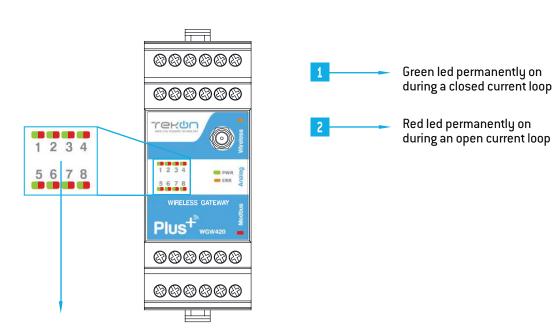




NOTE:

① Output index 1 is linked to modbus address [9], according to mapping table of step 03.

Modbus address double word (float 32) value is converted into 4..20 mA scale according to minimum and maximum defined values.



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