



### PLUS WGW420 INSTALLATION GUIDE

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**TEKONELECTRONICS.COM** 

## **PLUS WGW420 WIRELESS GATEWAY INSTALLATION GUIDE**

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Pages 13 to 16





# **01** WGW420 PLUS WIRELESS GATEWAY CONFIGURATION

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

01	Connect the antenna to the <i>Gateway.</i>



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.





### WGW420 PLUS WIRELESS GATEWAY CONFIGURATION









WGW420 PLUS WIRELESS GATEWAY CONFIGURATION

07	Load the "Port COM" corresponding to the WGW420 PLUS Wireless Gateway.
	Tekon ConFigurator – D ×
	DEVICES     BART TRANSMITER     SMART SERVICE     SMART SERVICE     WIED TRANSMITERS     WIED TRANSMITERS     Image: State of the service of the ser
	<b>NOTE:</b> If the USB cable has already been connected before opening the device page, "Port COM" will appear in the list, otherwise you need to click on the " <sup>29</sup> " button.
08	Select corresponding <i>Port COM</i> <sup>2</sup> .
	Tekon Configurator – O X
	Triton Configurator v1.8

<sup>&</sup>lt;sup>2</sup> You can check device's serial port name in "Device Manager" on Microsoft <sup>®</sup> Windows<sup>®</sup> operating system.



# 01 WGW420 PLUS WIRELESS GATEWAY CONFIGURATION

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*.

### 10

### Click on *Connect* ( 👜 ) button.

DEVICES	Gmart Transmitters > Gateways > WGW420     WGW420     WGW420	
SMART TRANSMITTERS	-	(Disconnected ()
SMART SENSORS	CON22 * 3	Hodbus Hode
wined transmitters	Wireless Interface Wireless Retwork ID ¢	
	Modbus Interface Hollius Address	
	Baudrote (spo) Parity Stophils 4000 V None V (2 V)	
		A annerer



## WGW420 PLUS WIRELESS GATEWAY CONFIGURATION

		TEKON CONFIGURATOR Quick, easy and smart configuration
DEN Turner SMA SMA SMA SMA SMA SMA SMA SMA	Inces     Increase     Intransmitters     Intransmitters	Connecting 1)
Teixon Configura	x v1.0	B. with score







### WGW420 PLUS WIRELESS GATEWAY CONFIGURATION

13	Configure the device fields and	write by clicking on the <i>"WRITE L</i>	<i>DEVICE"</i> button.
		Smart Transmitters > Osteways > WOW420  WOW420 D  Model 660 MRc Start Names T302017 Firmeware Version: 1.1.0  Hardware Version: 1.3  Vireless Interface  Nodbus Interface  No	
	<b>NOTE:</b> The "WRITE DEVICE" button will change it will be disabled.	only be active when there is a c	hange to one of the editable fields, if there is no
	While the settings are being with	Itten, the following icon will be dist	splayed next to the "WRITE DEVICE" button ( )
Twisis Contiguence v1.0		C A with serve	
	If the changes to the device ha	ve been written, the following sy appear ( 🗙 ),try again and chec	mbol will appear ( ✔ ) k that the device is connected correctly.



### NOTE:

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



Click on the button	( <sup>(()</sup> ) to exit <i>configuration mode</i> and re	eturn the device to normal operating mode. –   ×
	SS WINNITERS NORSE N	Quick, easy and smart configuration         Classmentation         Otherware         Toolboan         Hoolboan
Telion Configurator v1	0	Ø WHITE GOODS





### step 0 2 GATEWAY ANALOG OUTPUTS



DEVICES	∦ Smart Transmitters > 0	Bateways ) WGW420					
SMART TRANSMITTERS	Transmitter Index	Scan Time (s)	Port COH				(Disconnected (3)
SMART SENSORS	(1	(1	Parity None	• ©	Stopbits (2	•	Nodbus Hode
WIRED TRANSMITTERS	EALEROO OUTPUTS EALEROO OUTPUTS Fision Fisi	rt Index num Value num Value er of Cycles A Offset (uA) as Address Link I Current (mA)					
Tekon Configurator v1.0							A NUND DATA

03 Click the (()) button and wait for the device to connect. TEKON CONFIGURATOR Quick, easy and smart configuration rekun rs > Gate 🔅 Smart Trans ways > WGW420 DEVICES WGW420 🖪 Model: 968 MHz Serial Number: 13042017 Firmware Version: 1.0 Hardware Version: 1.0 ſ SMART TRANSMITTERS Scan Time (s) Port COM Tra 1 • 0 C Baudrate 19200 Parity Notic Hodbus Hode SMART SENSORS 1 ¢ ndex 0 WIRED TRANSMITTERS. 0 Value m Value 55 ¢ Number of Cycles 5 Ŷ Output Offset (pA) ¢ 5 ¢ us Address Lin Actual Current (mA) (3,1



### GATEWAY ANALOG OUTPUTS



Transmitter analog input 1 data is received and stored at the Gateway Modbus address [9].



# 2 GATEWAY ANALOG OUTPUTS

04

step

Link the "*Output Index*" (Gateway) to Temperature Input 1 (Transmitter) and configure the "*Modbus Address Link*" according to the previous step. Set the minimum and maximum values and click on "*Send Data*".





### 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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