



**Using VTB-RS485  
Vibration and Temperature Sensor  
with  
CloudGate Mini**

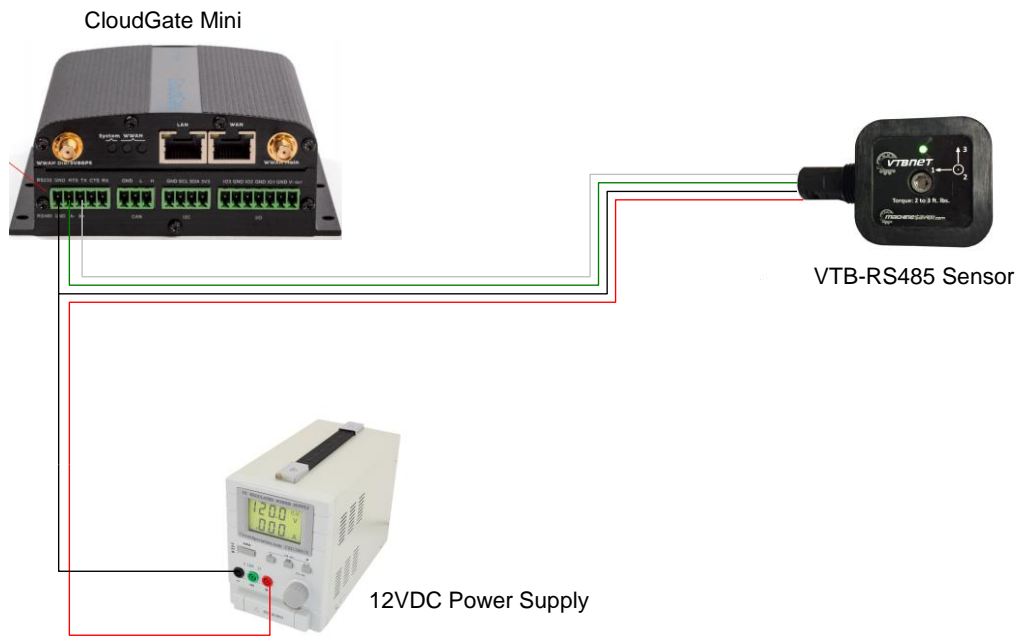
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### Hardware Setup

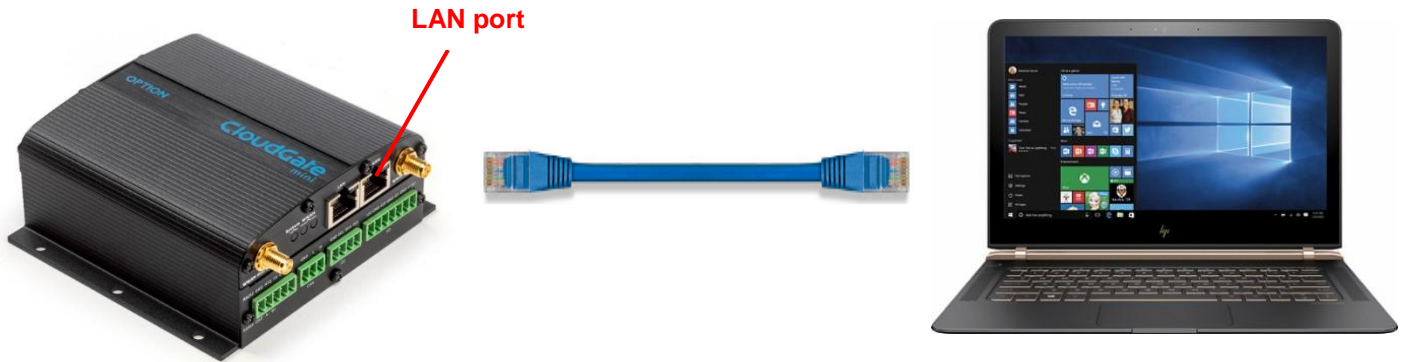
- 1) Make the connections as follows. Power the VTB-RS485 sensor from 12VDC ( or any power supply in the range 10 to 30 VDC ).



CloudGate can be powered through its AC adapter or DC cable ( using the same power supply as VTB-RS485 sensor or a differnt power supply ).



2) Connect Windows computer to CloudGate:





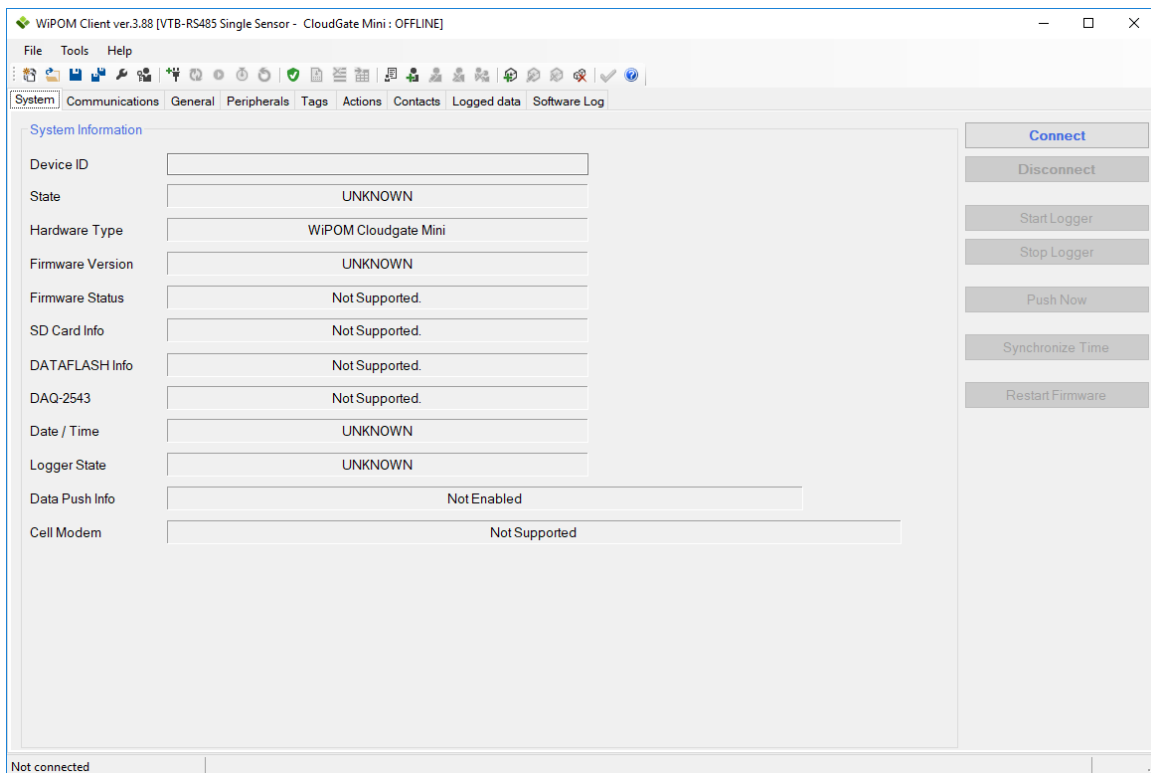
## Software Setup

- 1) Assign the IP address of CloudGate to match the network or the computer that CloudGate is connected.
- 2) Make sure CloudGate Mini has the latest CloudGate firmware. This can be downloaded from CloudGate Universe.
- 3) Load the latest WiPOM image to CloudGate Mini so it can communicate with the VTB-RS485 sensor.
- 4) Install WiPOM Client on your PC.

WiPOM Client can be downloaded from:

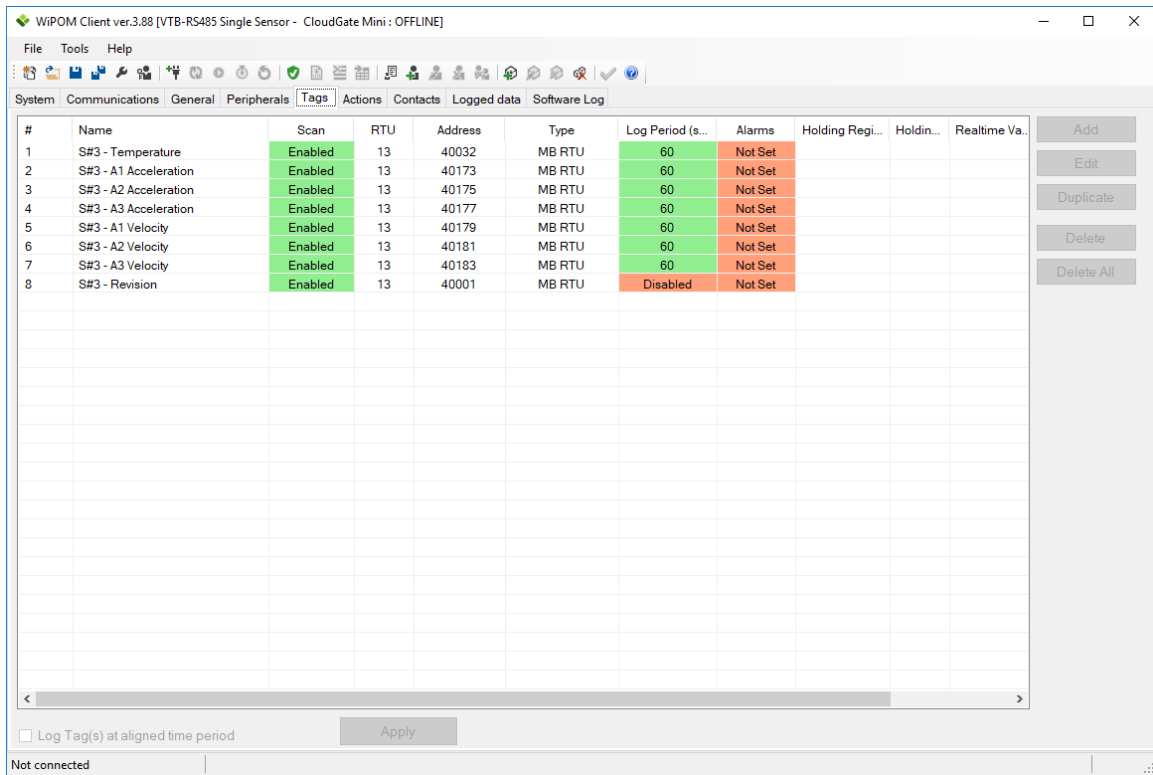
[https://www.bipom.com/web\\_softwares/4357735.html](https://www.bipom.com/web_softwares/4357735.html)

- 5) Open the WiPOM project called **VTB-RS485 Single Sensor - CloudGate Mini** for VTB-RS485 sensor:



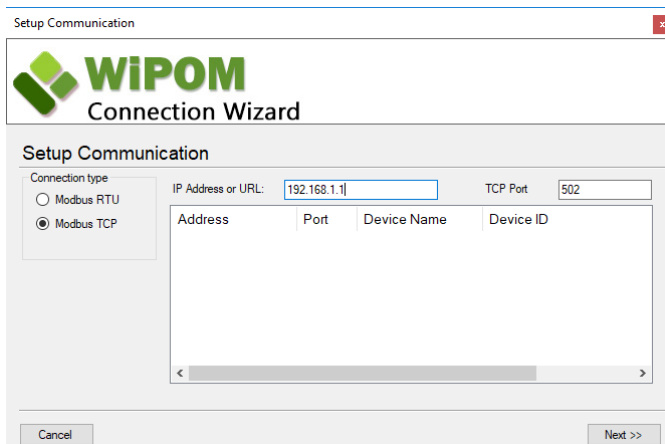


6) Click on the tags tab to see the pre-defined tags for the VTB-RS485.



7) Modify the RTU number of the tags (13 in this example) to match the RTU of the VTB-RS485 sensor. The RTU number is a VTB-RS485 sensors unique identifier on a Modbus network if multiple sensors are used. By default, the RTU number of the sensor is the last 2 digits of the serial number.

8) Connect WiPOM Client over ethernet to CloudGate by clicking the Connect button on the main page. Enter the IP address of the CloudGate. Port is 502 for Modbus:





- 9) Write the WiPOM project to CloudGate. For this click, on the Admin Mode button to switch to Admin Mode:

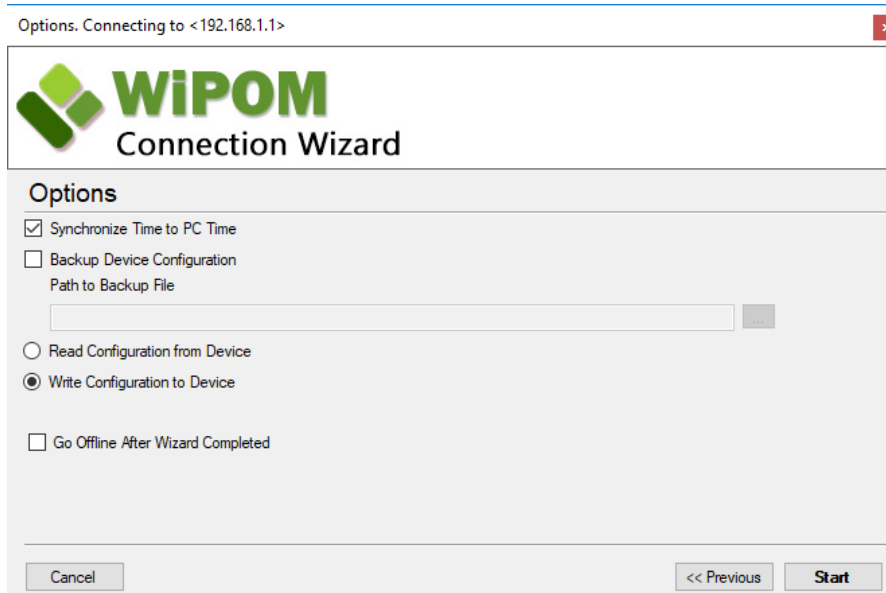
The image shows a software dialog box titled "Options. Connecting to <192.168.1.1>". The main header area contains the WiPOM logo and the text "WiPOM Connection Wizard". Below this, the "Options" section includes several checkboxes: "Synchronize Time to PC Time" (checked), "Backup Device Configuration" (unchecked), "Read Configuration from Device" (selected), "Write Configuration to Device" (unchecked), and "Go Offline After Wizard Completed" (unchecked). A text field for "Path to Backup File" is present with a browse button. A red error message "Writing a project is allowed only in Admin mode" is displayed next to the "Write Configuration to Device" option, with a small "Admin mode" button. At the bottom, there are "Cancel", "<< Previous", and "Start" buttons.

- 10) Enter **wrtuadmin** as the admin mode password:

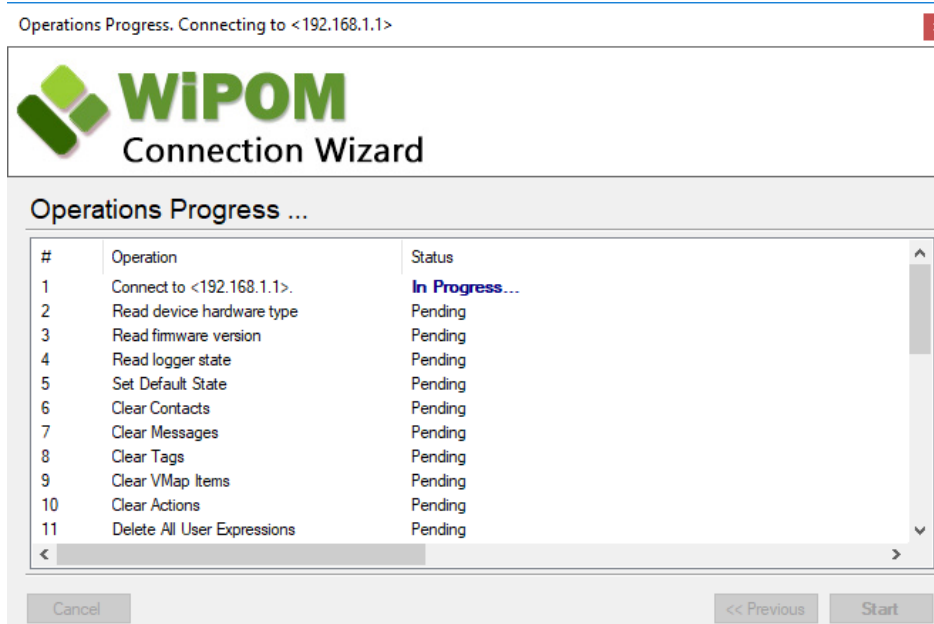
The image shows a small dialog box titled "Enter admin password". It contains the text "Please enter password for Admin mode:" followed by a password input field with a masked password "\*\*\*\*\*". At the bottom, there are "OK" and "Cancel" buttons.



11) Select Write Configuration option:



12) Click Start. The project will be written to CloudGate and WiPOM Client will change to online mode:



13) Start logging and monitoring the data values.

14) You can also use the Modbus (MB) Client and the VTB Client to monitor overall and dynamic data from VTB-RS485 Sensor.



Modbus Client can be downloaded from:

<https://www.bipom.com/products/us/4381291.html>

VTB Client is part of VTB Launchpad which can be downloaded from here:

<https://www.bipom.com/products/us/4381294.html>