Step 5. View Connected Devices
From a computer log onto AWIN GW100 webpages. To do so, the computer must be on the same network as the AWIN GW100. Open a web browser (e.g. IE) and type: ‘https://172.16.16.1’ and hit enter to continue. Subnet mask is ‘255.255.252.0’.
Use the following credentials to login.
User: admin
Password: admin

Browse to Configuration>WirelessHART> Devices. After few minutes of Step 4, the ABB wireless devices should appear here if operating at default settings. To connect non-ABB devices, refer to their user manual.

Step 6. Apply Minimum Settings
If the field wireless devices are already parameterized from the factory. User shall consider making configuration changes on the following pages:
- Configuration>Network interface> Change IP Configuration
- Configuration>WirelessHART>Network Configuration
- Configuration>Usernames/Passwords
- Configuration>General

Afterwards, Select:
- Maintenance>Reboot.

Wait till the system reboots and wireless devices connect.

Step 7. All Done! Connect from Host System.
Connect from host system that supports ModbusTCP to AWIN GW100 gateway. If you use auto Modbus mapping functionality then no configuration is required. Moreover, refer to the user manual to find information about device parameters and data types available over Modbus connection.

Modbus mapping information available at:
- Configuration>Modbus>Modbus Configuration.
- Configuration>Modbus>Modbus Mapping.

Contact Center offers you a single point of contact for all your inquiries to ABB. Your inquiries will be routed to correct person or registered for further follow-up. Customers with a service agreement may contact our dedicated Service Desk on a separate number.

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In conformity with European local and national regulations (EU Directive 2012/19/EU), electrical equipment marked with this symbol may not be disposed in European public disposal system.
Product Description

AWIN GW100 is a WirelessHART gateway that can connect up to 24 WirelessHART devices. It creates and manages a WirelessHART network and converts HART data to ModbusTCP data for easy integration to automation controllers and other host systems.

What’s in the Box
1) AWIN GW100 unit (including power connector)
2) Test antenna
3) Quick setup guide (this document)
4) Conformity and condition of use documents

Health and Safety
To ensure that the device is safe and without risk to health, the following points must be noted:

- Relevant sections of the instructions in the user manual must be read before proceeding.
- Warning labels on the product and packages must be observed.
- Installation, operation, maintenance and service must only be carried out by suitably trained personnel and in accordance with the information given in the user manual.
- The applicable specifications and safety directives (including the national safety directives), as well as the general technical regulations must be observed during installation and operation.
- The technical data should be taken from the user manual, datasheets and the certificates (conformity assessments).
- Opening the device or making changes to it is not permitted.
- Do not repair the device yourself but replace it with an equivalent device.
- The IP20 degree of protection of the device is intended for a clean and dry environment.
- Only use passive antenna with AWIN GW100.
- Do not use AWIN GW100 in environments where there is a danger of dust explosions.
- The cabinet where the device is installed must comply with the specifications of EN 60950-1:2001 with respect to fire enclosure.
- When working on the enclosure cabinet, the operator must first discharge electrostatic charges before touching the assemblies (to protect against electrostatic discharge).
- The gateway is suitable for general purpose installation and for installation in some potentially explosive areas. Observe the specific conditions as mentioned in user manual for the use of device in potentially explosive areas.
- The wireless system may only be operated together with the accessories that are available from ABB. The use of any other components can lead to the withdrawal of the operating license.

Further information about regional approvals, product disposal, latest user manual and instructions in other languages visit www.abb.com.

Getting to know AWIN GW100

LEDs Information:
- ST - shows power and device status
- MESH – reports if WirelessHART devices connected
- LINK - shows LAN connection status
- DATA - indicates traffic on LAN port
- ERR – reports the device error

Reset Device Information:
A hardware reset restores the device to factory default settings. Refer to the user manual for reset procedure.

Setup Guide

Step1. Install AWIN GW100
Install AWIN GW100 to a mounting rail. It snaps onto a standard rail. Optionally, use end clamps to prevent the module from moving on the rail.

Afterwards, install the antenna vertically. The antenna is plugged into the antenna connection socket. Please observe the operating instructions for the antenna used.

Step2. Connect Power to AWIN GW100
Connect power source to AWIN GW100. Recommended supply voltages 12VDC or 24VDC. When powered-up, LEDs should blink, and ST LED should turn into solid green color.

- Electrical installation should be carried out only by qualified electricians.
- Power connector is shipped with the unit and connection labels are marked on the unit faceplate.

Step3. Connect AWIN GW100 to Network
Connect Ethernet cable from AWIN GW100 to the network switch where a computer is connected.

For configuration purposes, the AWIN GW100 can be connected directly to a computer.

Step4. Switch on WirelessHART Devices
ABB WirelessHART devices come with a local HMI. Use it to activate devices. For details on connecting third party devices, refer to their user manual.

To connect wireless devices, they should be within the range of the AWIN GW100 or other devices.

Typical range between AWIN GW100 and connected WirelessHART device:
- Up to 200m Outdoor
- Up to 50m Indoor