

MOXA ITB-5105 Modbus TCP Gateway Controller User Guide

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Gateway Controller User's Guide Model: ITB-5105

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Introduction

This document describes the Gateway Controller (Model ITB-5105) overview and how to use Z-Wave™ functionality.

Feature Overview

The current product is a home gateway device. IoT devices such as sensors are connected and can be controlled with this device. This device supports various interfaces for the functionalities of Wireless LAN, Bluetooth®, Z-Wave[™]. The device can collect sensing data from various Z-Wave[™] sensor devices, and uploading of the data to a cloud server by wired LAN communication is available.

The Gateway Controller has the following general features:

- LAN Ports
- Wireless LAN client
- Z-Wave[™] communication
- Bluetooth® communication
- * The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc

Names of Product Device Parts

The front and back view of the product device and parts names are as follows.



No	Part Name
1	System Status Lamp
2	Inclusion/Exclusion Button (Mode Button)
3	Micro USB Port
4	USB Port
5	LAN Port
6	DC-IN Jack

LED Indication Information

System status LED/Lamp Indicator:

LED Indicator	Device Status
White Turn on.	Device is booting up.
Blue Turn on.	Device is connected to the cloud and is operating normally.
Green Turn on.	Device is trying to connect to the cloud
Green Blinking.	Z-Wave Inclusion/Exclusion mode.
Red Blinking.	Firmware update is in progress.

Installation

Installation of the Gateway Controller is only a one step process:

1- Connect an AC adapter to the gateway and plug it into an AC outlet. The gateway has no power switch.

It will begin operating as soon as it is plugged into the AC adapter/outlet. The gateway needs to be connected to the internet via a LAN port.

Z-Wave™ Overview

General Information

Device Type Gateway Role Type Central Static Controller (CSC) Command Class

Support

COMMAND_CLASS_APPLICATION_STATUS
COMMAND_CLASS_ASSOCIATION_V2
COMMAND_CLASS_ASSOCIATION_GRP_INFO
COMMAND_CLASS_CRC_16_ENCAP
COMMAND_CLASS_DEVICE_RESET_LOCALLY
COMMAND_CLASS_MANUFACTURER_SPECIFIC_V1
COMMAND_CLASS_POWERLEVEL
COMMAND_CLASS_SECURITY
COMMAND_CLASS_SECURITY_2
COMMAND_CLASS_VERSION_V2
COMMAND_CLASS_VERSION_V2

Control

COMMAND CLASS ASSOCIATION V2 COMMAND CLASS BASIC COMMAND_CLASS_CRC_16_ENCAP COMMAND_CLASS_MULTI_CHANNEL _V4 COMMAND CLASS MULTI CHANNEL ASSOCIA TION V3 COMMAND_CLASS_WAKE_UP_V2 COMMAND_CLASS_BATTERY COMMAND CLASS CONFIGURATION COMMAND CLASS DOOR LOCK V4 COMMAND CLASS INDICATOR V3 COMMAND CLASS MANUFACTURER SPECIFIC _V1 COMMAND CLASS METER V5 COMMAND CLASS NODE NAMING COMMAND CLASS NOTIFICATION V8 COMMAND CLASS SENSOR MULTILEVEL V11

Securely S2 Supported Command Class

COMMAND_CLASS_ASSOCIATION_GRP_INFO COMMAND_CLASS_ASSOCIATION_V2 COMMAND_CLASS_MANUFACTURER_SPECIFIC_V1 COMMAND_CLASS_VERSION_V2

Interoperability

This product can be operated in any Z-Wave™ network with other Z-Wave™ certified devices from other manufacturers.All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

Security Enabled Z-Wave Plus™ Product

The gateway is a security enabled Z-Wave Plus[™] product.

Basic Command Class Handling

The gateway will ignore Basic Commands received from other devices in the Z-Wave™ network.

Support for Association Command Class

Group id: 1 – Lifeline

Maximum number of devices that can be added to the group: 5

All devices are associated with the group.

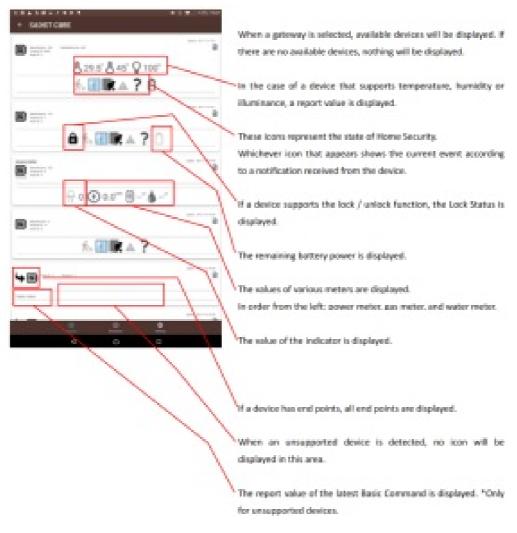
Android Controller Application "Gateway Controller"

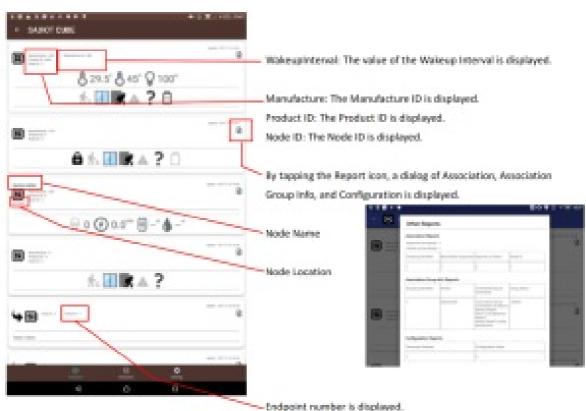
Gateway Select Screen

When an available device is detected that can be used, the icon of the gateway is displayed. If nothing is displayed, please confirm that the network is correctly set.



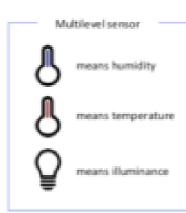
Device Viewer











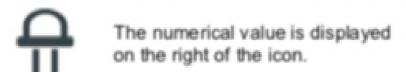


Battery Battery level is displayed 100% Battery level is displayed as numerical value. It is displayed when the battery level is low. It is displayed when the battery level is not acquired.

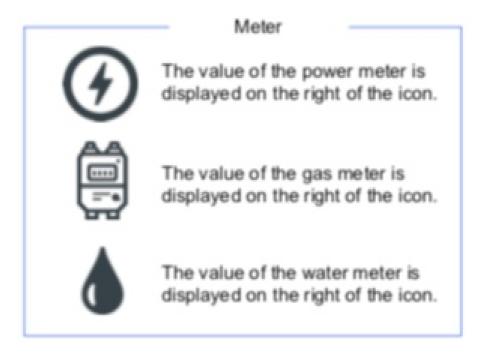




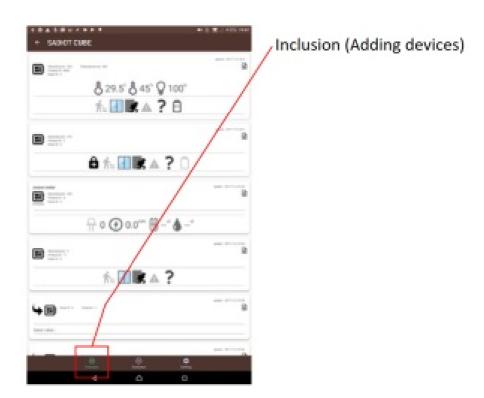
When the report has been updated, It is displayed with a red icon.



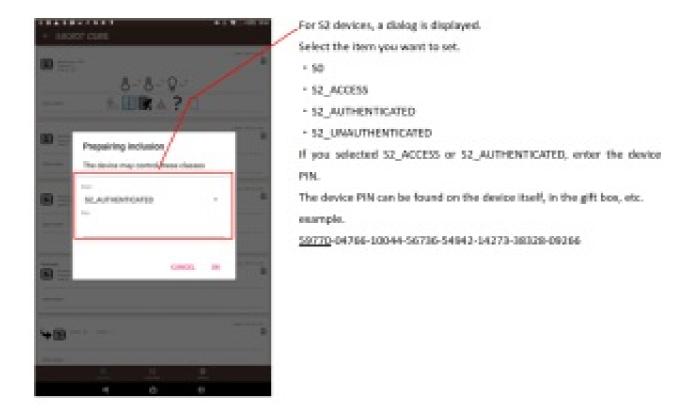
Indicator



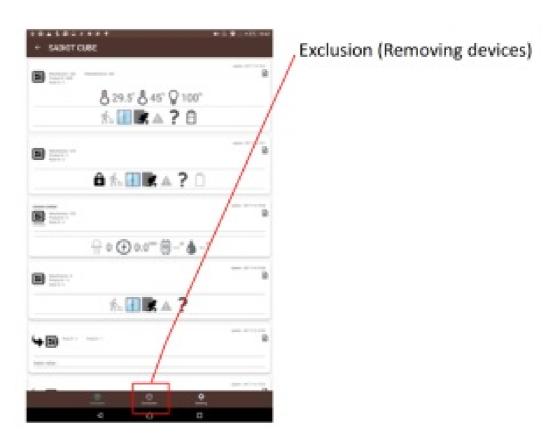
Inclusion (Add)



To add a device to the Z-WaveTM network, press the "Inclusion" button in the Android Controller Application. This will put the gateway into Inclusion Mode. Then a gateway operation dialog will appear in the Android Controller Application. The gateway operation dialog will be displayed during the Inclusion Mode. To stop the Inclusion Mode, press the "Abort" button in the gateway operation dialog, or wait for one minute and the Inclusion Mode will automatically stop. When the Inclusion Mode has stopped, the gateway operation dialog will automatically disappear.

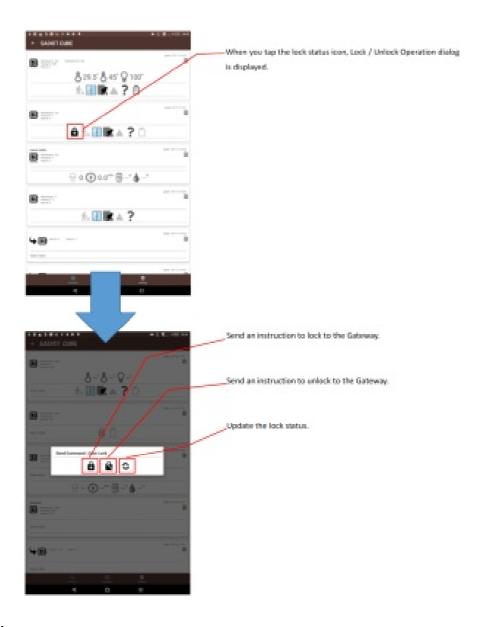


Exclusion (Remove)

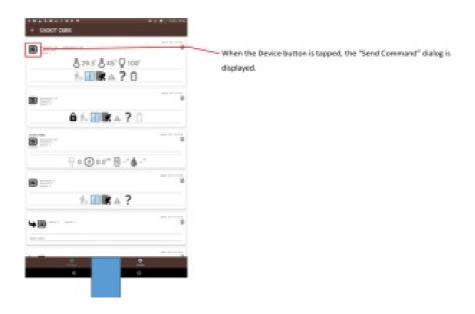


To remove a device from the Z-Wave™ network, press the "Exclusion" button in the Android Controller Application. This will put the gateway into Exclusion Mode. A gateway operation dialog will appear in the Android Controller Application. The gateway operation dialog will be displayed during the Exclusion Mode. To abort the Exclusion, press the "Abort " butt on in the gateway operation dialog, or wait for one minute and the Exclusion Mode will automatically stop. When the Exclusion Mode has stopped, the gateway operation dialog will automatically disappear.

Lock/Unlock Operation



Send Command





Settings



Node Remove

To remove a failing node from the Z-Wave™ network, press "Node Remove" in the Settings dialog, and tap the



Node Replace

To re place a failing Node with another equivalent device, press "Replace" in the Settings dialog, and tap the Node ID to be replaced in the Node Replace dialog. The Gateway Operation dialog will appear.



Reset (Factory Default Reset)

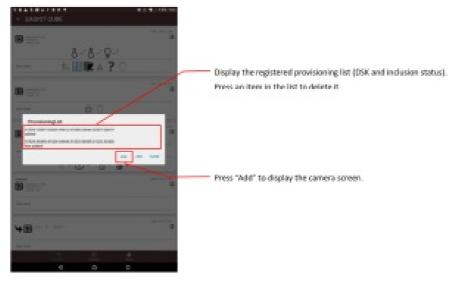
Press "RESET" in the Factory Default Reset dialog. This will reset the Z-Wave™ chip, and the gateway will show "DEVICE RESET LOCALLY NOTIFICATION" after the restart. If this controller is the primary controller for your network, resetting it will result in the nodes in your network becoming orphaned, and it will be necessary after the reset to exclude and re-include all of the nodes in the network. If this controller is being used as a secondary

controller in the network, use this procedure to reset this controller only in the event that the network primary controller is missing or otherwise inoperable.



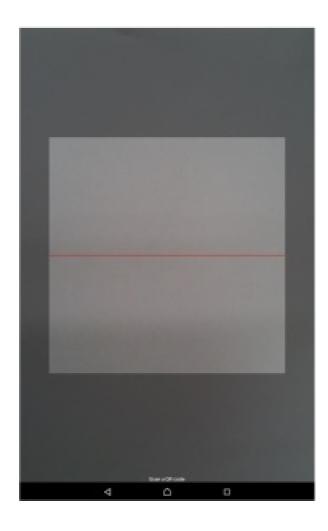
SmartStart

This product supports SmartStart integration and can be included in the network by scanning the QR code or entering the PIN.



As the camera starts, hold it over the QR code.

Register the DSK when you correctly hold the camera over a QR code on the product label.



Z-Wave S2(QR-Code)



In the event that the gateway is already the controller of the Z-WaveTM network, put the gateway into Inclusion Mode, and put another controller into the Learn Mode. The Replication will begin and network information will be sent to another controller. In the event that the gateway is integrated into an existing Z-WaveTM network, put the gateway into Learn Mode, and put the existing controller into Inclusion Mode. The Replication will begin and network information will be received from the existing controller.

Documents / Resources



Manuals+,