GPG BHAS | PRODUCT MANAGEMENT |

Modbus KNX Gateway

Sales presentation

Modbus KNX Gateway
Introduction

Modbus KNX Gateway

Today’s situation

Modbus is found in multiple devices in a wide variety of applications. It is common to find Modbus devices in the same project where KNX is installed. The gateway allows to integrate Modbus devices and the KNX system quickly and easily.

Some examples:

Metering
Collecting metering data from few single devices into a KNX visualization/ display panel.

HVAC
Exchanging set points or adjusting fan speeds from KNX sensors to a single ventilation unit.

Hospitality
Integration of typical room Modbus devices, such as a bedside panel, room thermostat, etc.

Others
Simple data integration to solar, EV charging equipment, etc.

Modbus KNX Gateway
Main features

MG/S 11.100.1.1

2CDG120089R0011

Modbus RTU Client – KNX TP Gateway

- The Modbus KNX Gateway integrates Modbus RTU server devices with KNX installations at field level (**bidirectional**)
- The devices support standard KNX data points (DPT)
- Up to 100 Modbus data points
- Up to 100 Modbus servers[1]
- Auxiliary voltage is not required (via bus)
- The device is put into operation with the ETS
- An optional, free-of-charge DCA is available to facilitate the configuration, allowing to export, and import Modbus-KNX mapping in the form of templates.
- Modbus templates are available for download from a database.

1 The limitation is given by the maximum number of data points (100)

Modbus KNX Gateway
Value propositions

More flexibility
Connect any available Modbus server and be future-proof - integration and mapping of new devices can be done at any time

Faster configuration
Mapping templates simplify configuration and avoid repetitive manual work to save time and effort

Reuse of work
Once a mapping of a Modbus device has been done it can be easily reused

Modbus KNX Gateway

Product overview

Modbus KNX Gateway

Main features- Hardware

KNX programming button

Status LED:
Modbus & KNX

2D Code for traceability

MDRC
2 module width

DIP Switch for Modbus end of line termination

Modbus RTU
RS485

Label field

KNX TP
Standard KNX connector

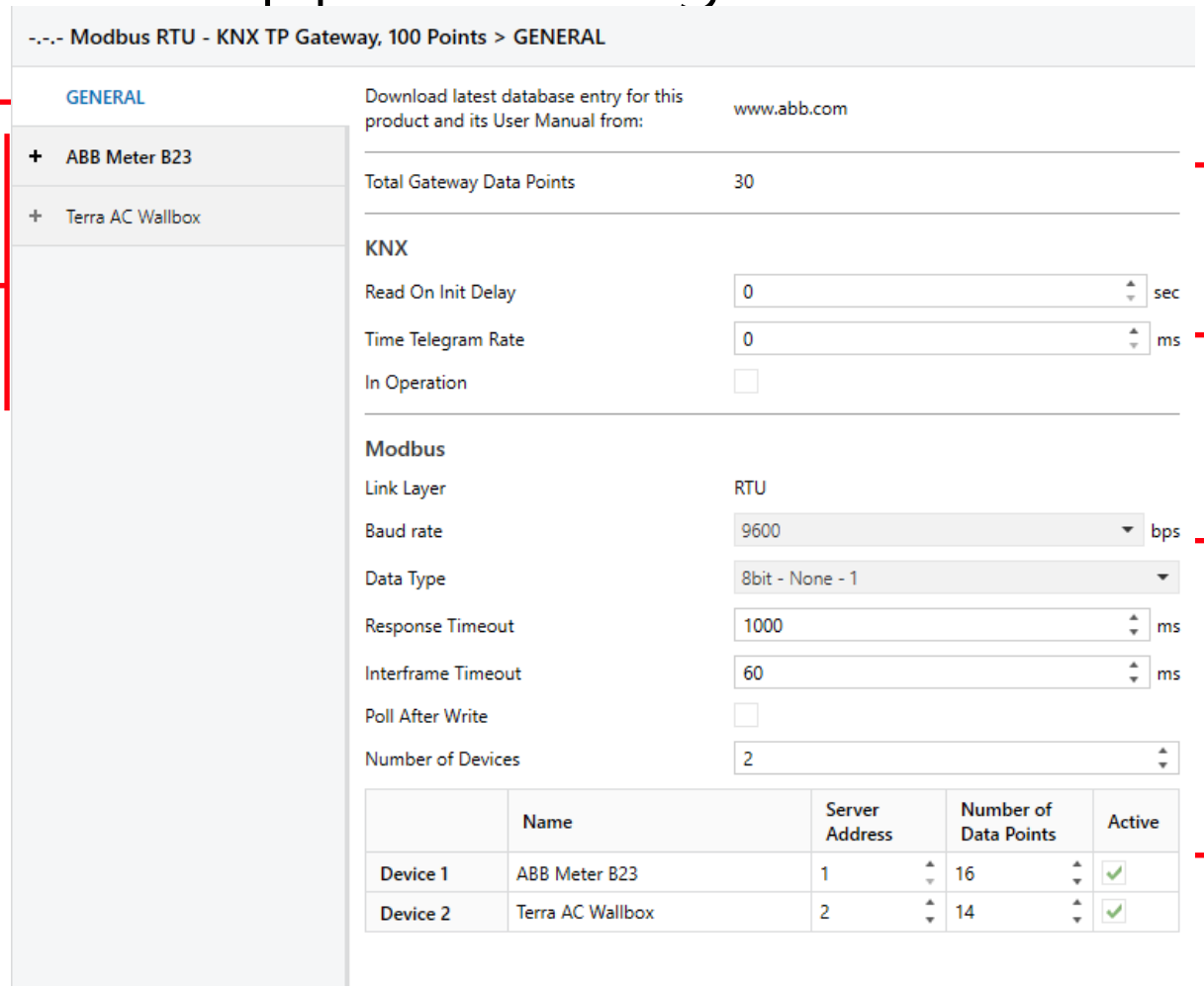
Supply via KNX bus. No auxiliary power supply necessary

Modbus KNX Gateway

Main features – ETS application general

General parameters KNX & Modbus

Individual tab for the configuration of each server



Total number of data points

General parameter KNX

General parameter Modbus

Server overview table

General window for KNX and Modbus parameters.

Overview table of all servers to configure.

For each server, a parameter window is created.

Modbus KNX Gateway

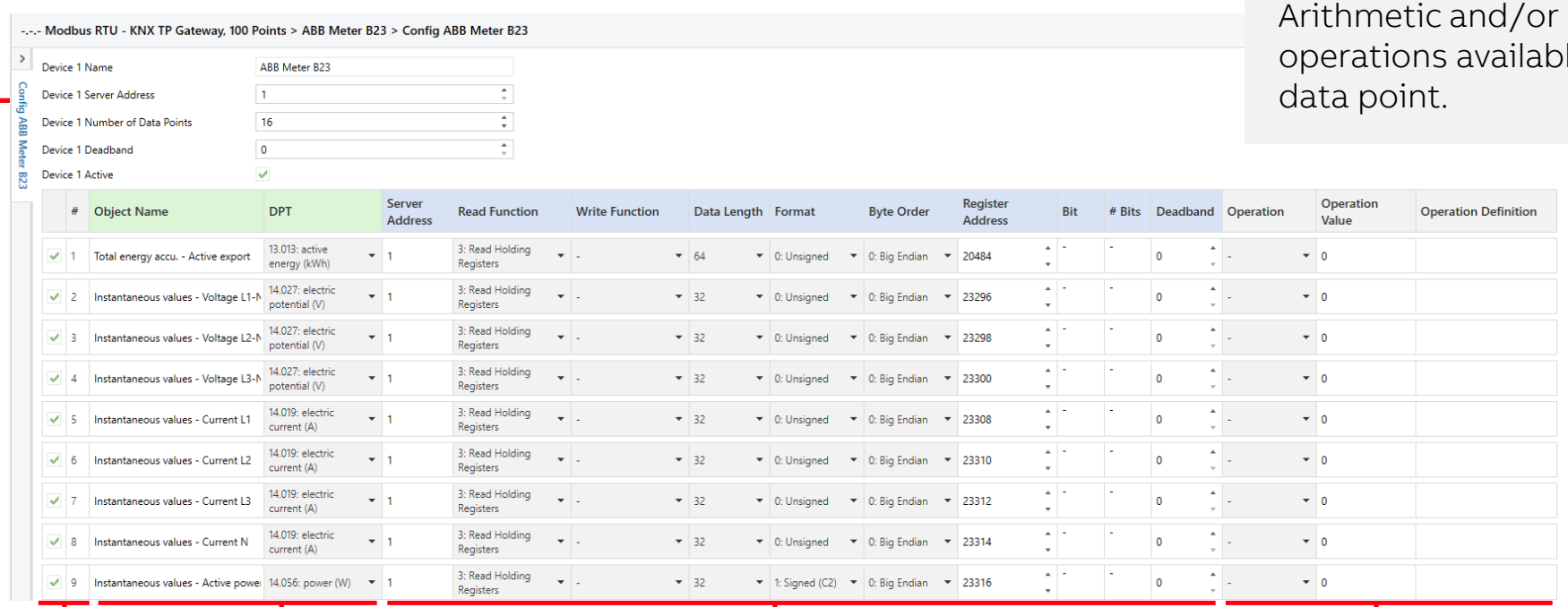
Main features – ETS application server

Each server has a parameter window.

Modbus and KNX mapping to be done via an easy-to-use table.

Arithmetic and/or logical operations available for each data point.

Basic parameter per server



Data point information

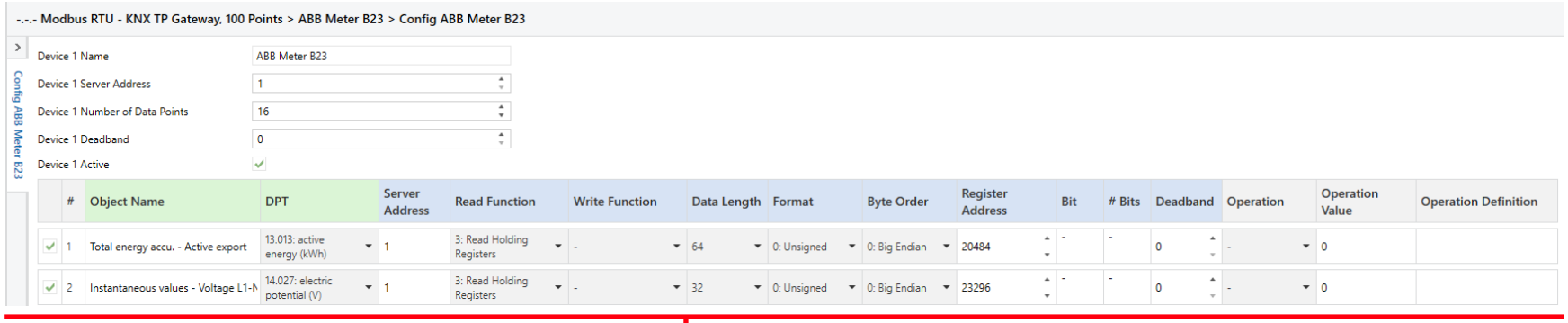
KNX data

Modbus data
(Defined by manufacturer)

Arithmetic operations (x & /)
Logical operations (= ≠ <>)

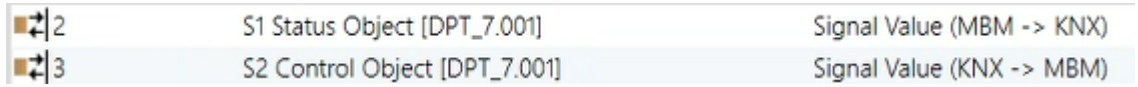
Modbus KNX Gateway

Main features – Group objects



Read

Read / write

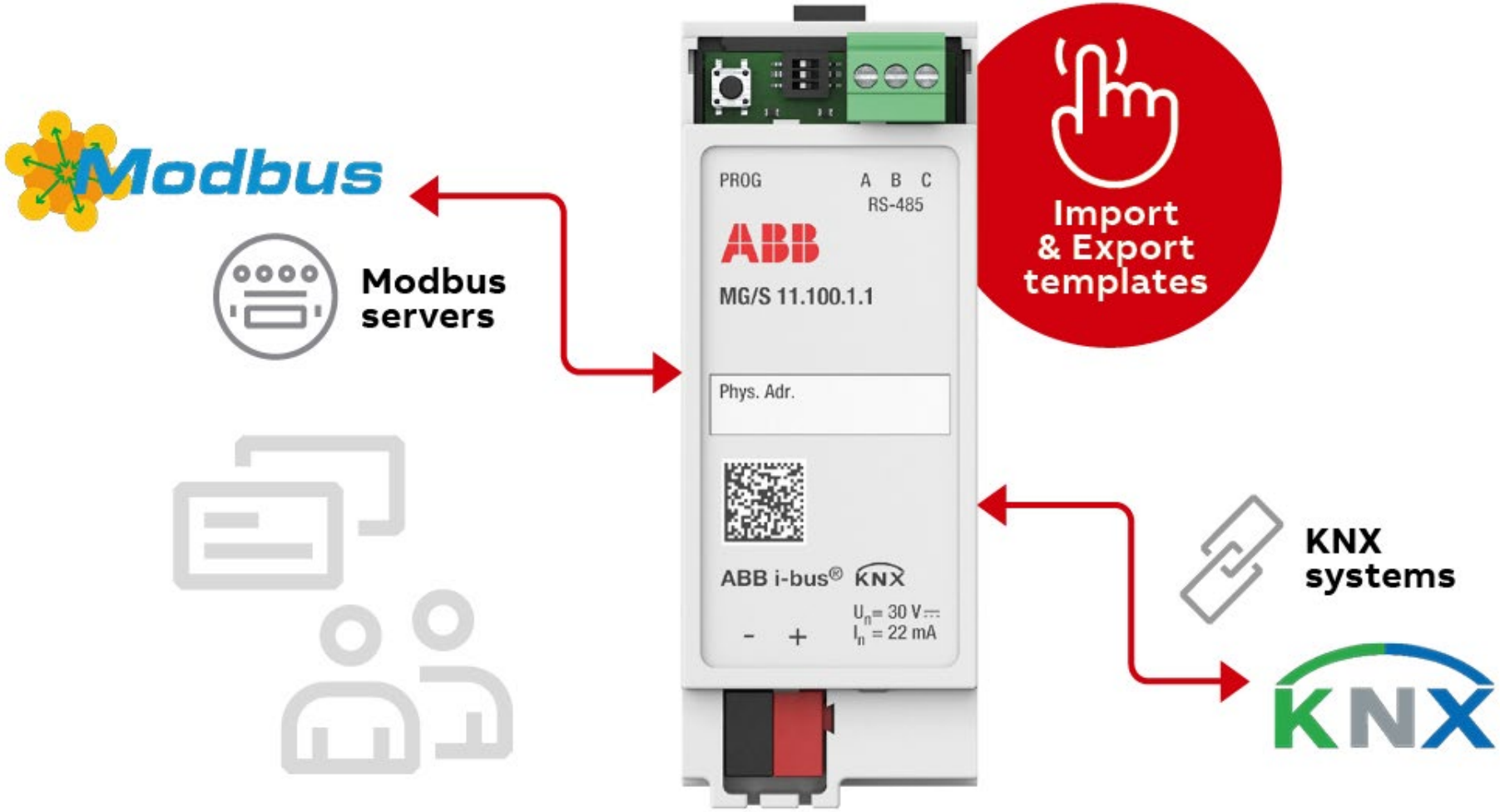


Depending on the type of data point (read or write) one or two group objects are enabled

Example with ABB B23 Meter

Modbus KNX Gateway

Infographic DCA



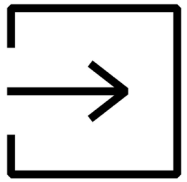
Modbus KNX Gateway

Main features – DCA

- An **optional**, **free-of-charge** DCA is available to facilitate the configuration

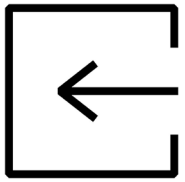
Creation

Do the Modbus - KNX mapping once to reuse it in all other projects



Export

Export the created mapping as a template and save it locally



Import

Import the locally saved template

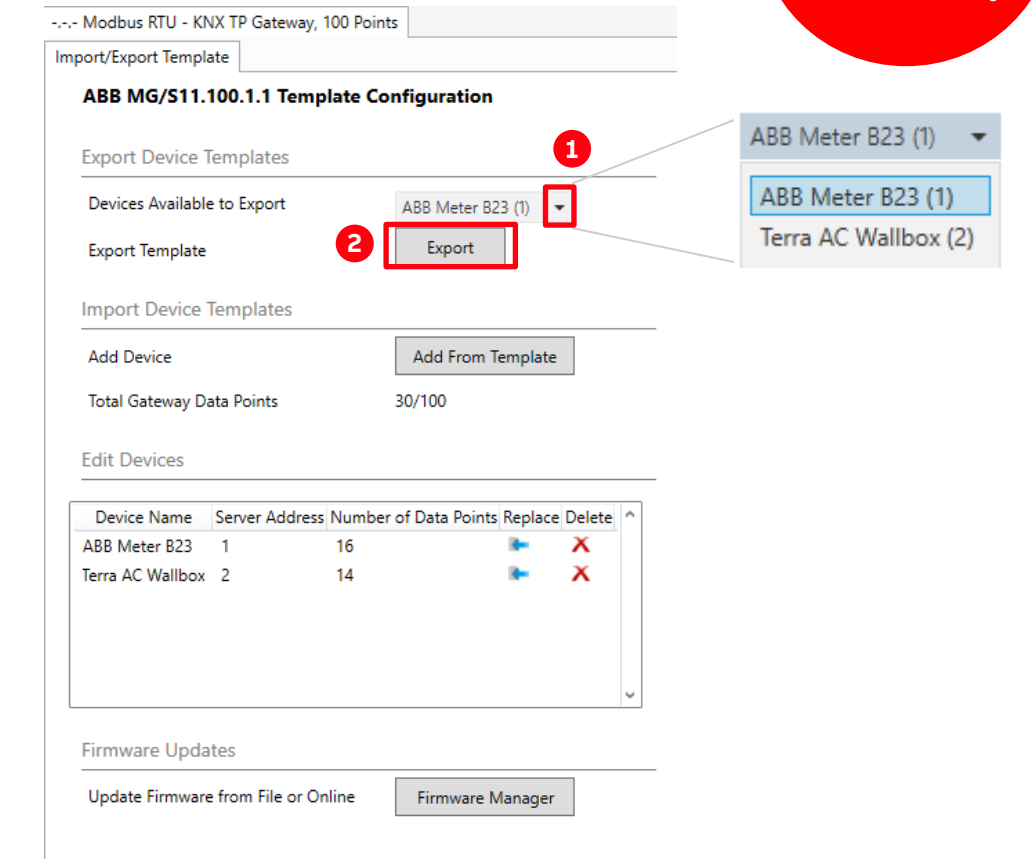
Import a template from the online database

Database

Avoid manual mapping by using available templates from the online database (ABB and 3rd parties).

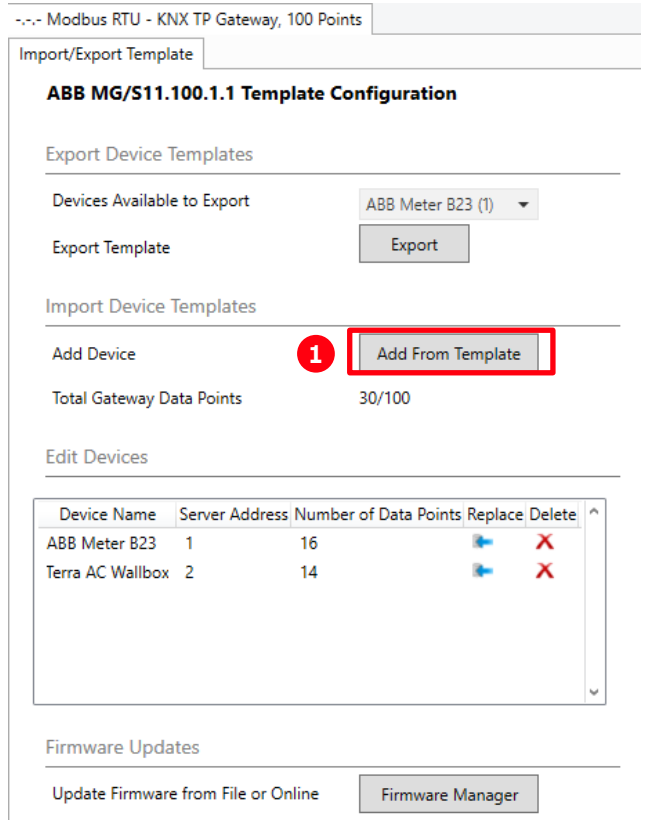
Export

1. Select the device
2. Click “Export”
3. Save locally



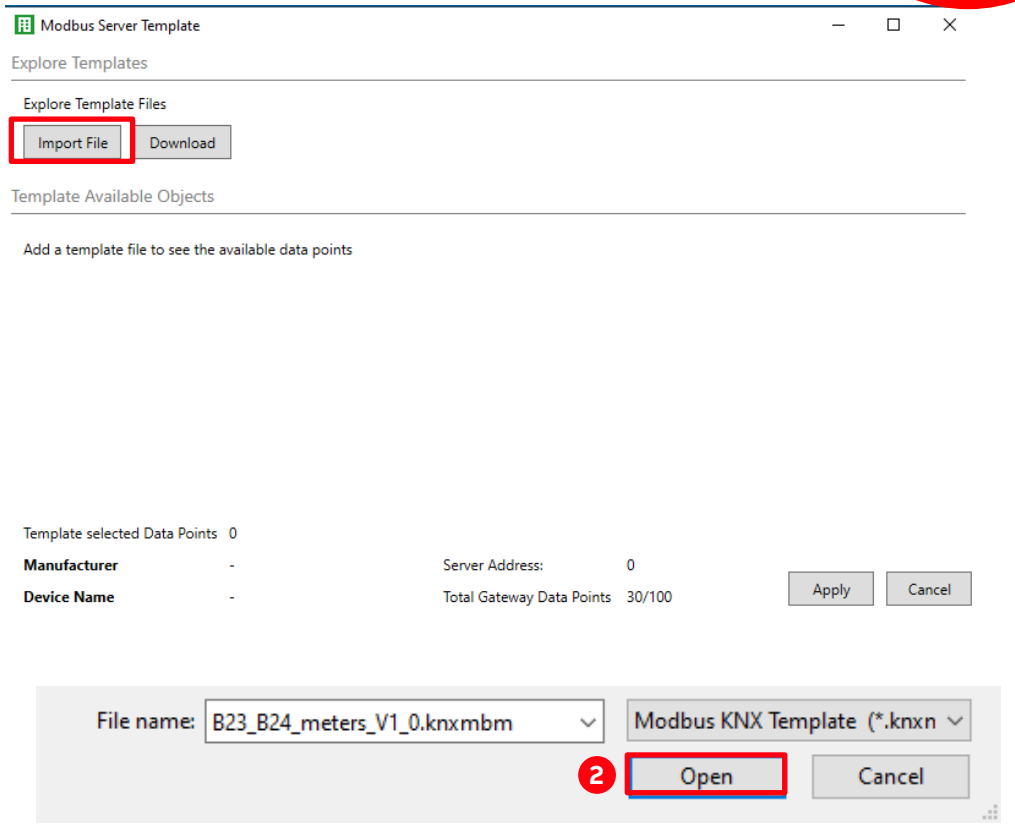
Import

1. Select “Add from template”



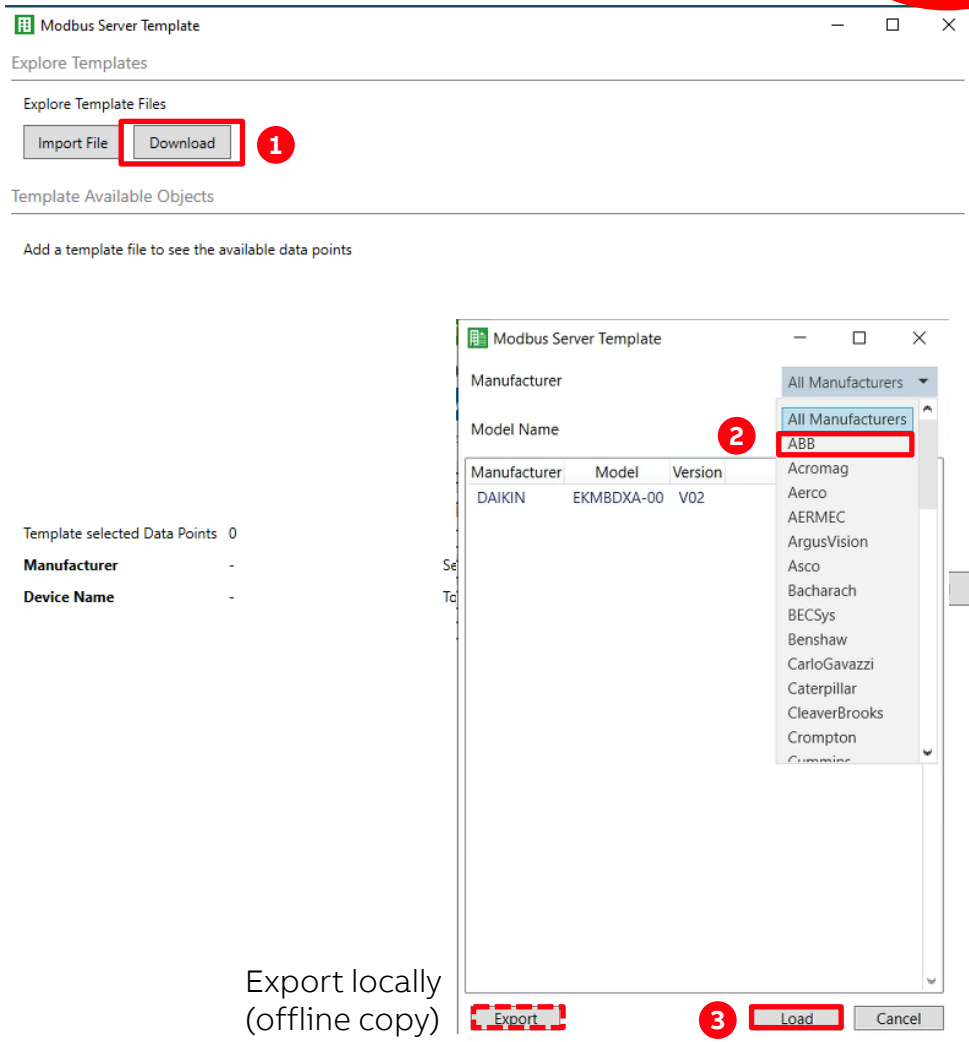
Import local

1. Select “Import file”
2. Search file locally
3. Open



Import database

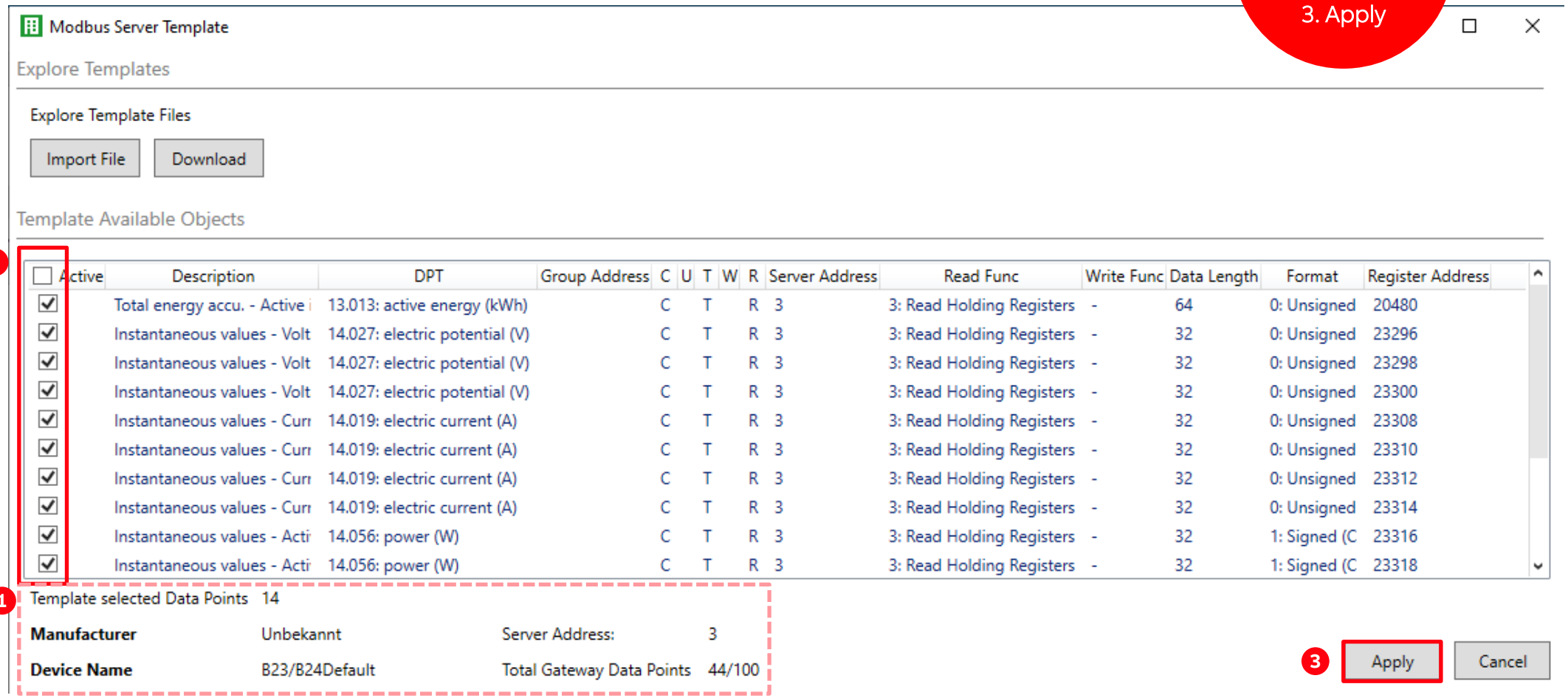
1. Select “Download”
2. Search template
3. Open



Export locally (offline copy)

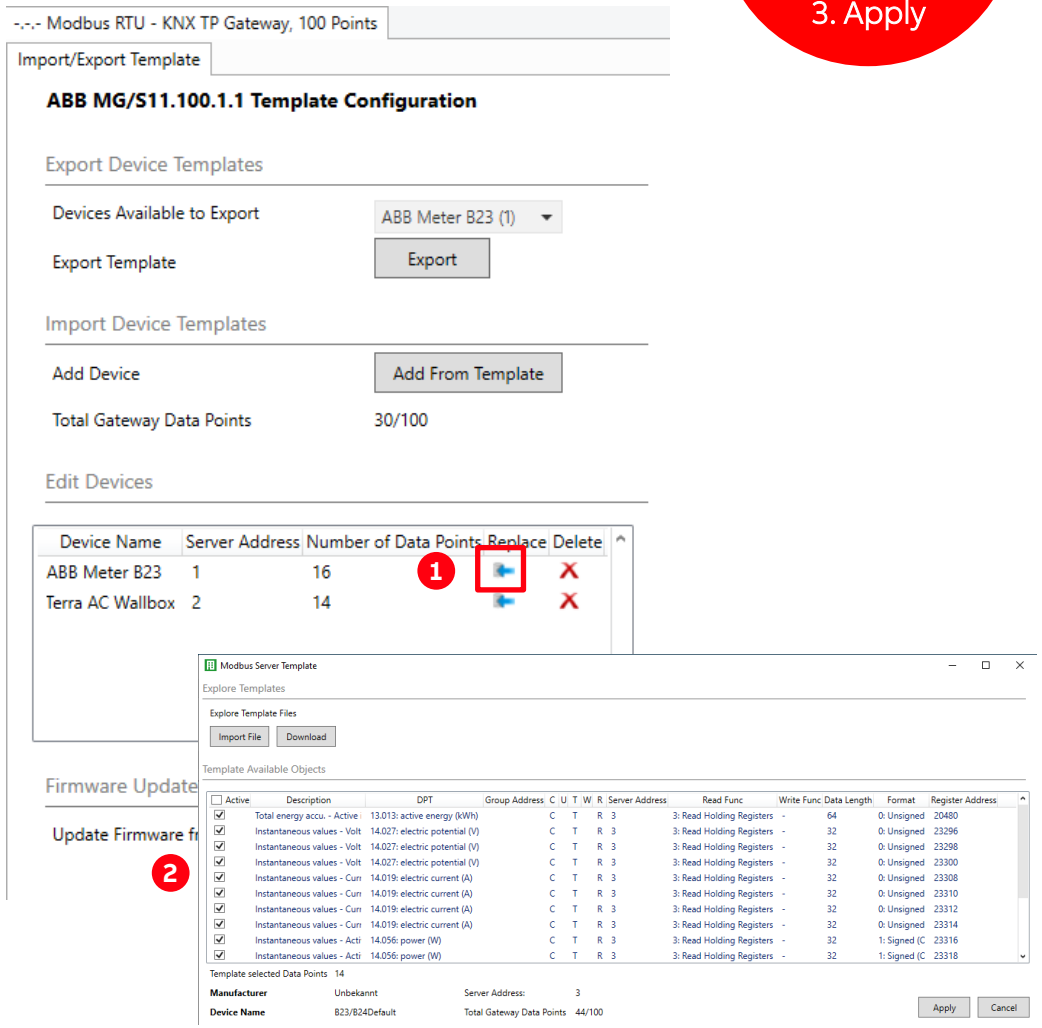
Import

1. Check information
2. Select data points
3. Apply



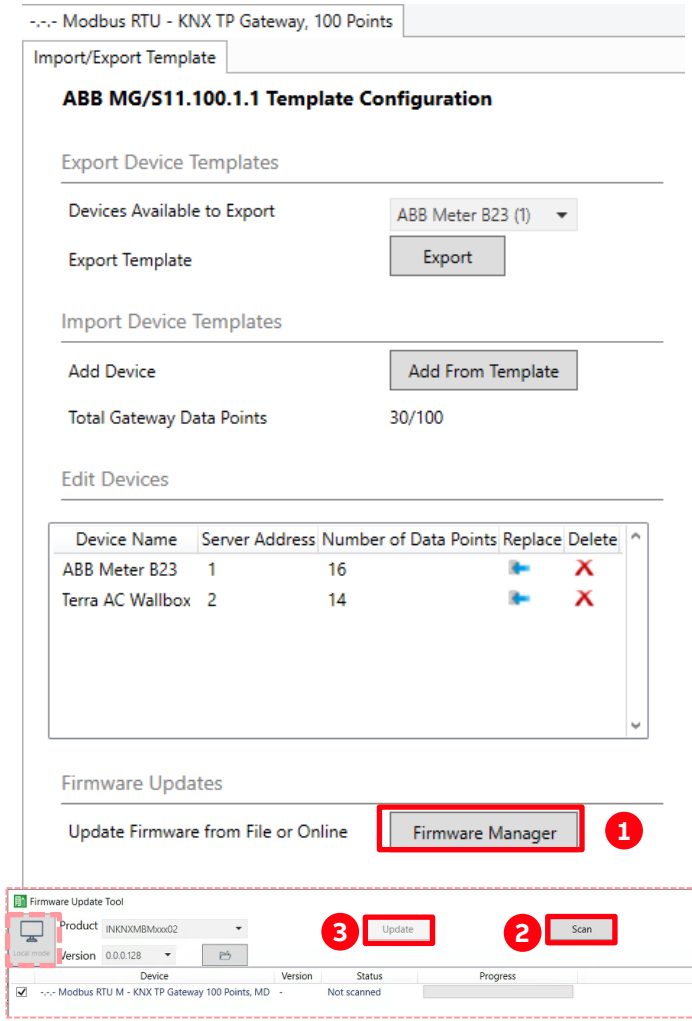
Replace

1. Select “Replace”
2. Check and select data points
3. Apply



Firmware update

1. Select “Firmware Manager”
2. Search file locally or scan online
3. Upload



Modbus KNX Gateway

Product data

Modbus KNX Gateway

Ordering details

Ordering Details:

Description	EAN	Type	Order Code	Weight Kg
Modbus RTU-KNX TP Gateway, 100 Points, MDRC	4013614571084	MG/S11.100.1.1	2CDG120089R0011	0.082

Modbus KNX Gateway

Learn more

Modbus KNX Gateway

The cost-effective gateway
with high functionality and ease of use.

to.abb/xXxo2o62


ABB