Smart TIC Connect

Linky Meter interface module

Product Overview

The Xemex Smart TIC Connect is a compact converter module changes the Linky Meter TIC message contents into Modbus TCP or MQTT.

The module supports TIC ports defined by *Enedis-NOI-CPT_54E norm V3, 2018*. The Dongle connects to the TIC port of the Linky Meter via a double-pin connector.

The module acts as a Modbus TCP slave over Ethernet to connect to a Modbus master on the local network. It can also function as an MQTT client which publishes data on a MQTT broker.

Customization can be done for the for Modbus TCP memory map and MQTT broker. See User manual for the details.

User interaction is facilitated facilitated by a multicolor backlit button, which utilize color coding to indicate the Dongle's status

Typical Installation Process

1. When utilizing the TIC input
   a. Historique Mode is not supported
   b. Standard Mode is supported

Contact Enedis to change the TIC message Mode. This does not affect the metering or billing settings.

2. Limit all the cable lengths to max 30m
3. When utilizing MQTT
   a. No Power Supply required
   b. Data and broker details in the User Manual

IT Connection

The following are based on IPv4:
- mDNS
- Fixed IP
- DHCP

Modbus TCP Meter

- Phoenix EMPro
- **More Coming Soon**

Technology

General
- Connects directly to TIC port of Linky meter
- Power via USB-C Power Supply
- Data frequency: Equal to French Meter
- Modbus TCP meter emulation
- Easy configurable via Web Interface

TIC interface
- TIC input port
- Protocol compatible with Enedis-NOI-CPT_54E norm V3, 2018
- Hardware Compatible with French Meters
- Support for 1 phase & 3 phase meters

LEDs & Button
- 1 LED to visualize status
  - RED 'On': Booting
  - Red/Green 'Blink': No TIC data
  - Orange/Green 'Blink': No IP address
  - Green 'On': No Issues
- Button:
  - Click: Reconnect to network
  - Hold 1 sec: Reset to factory defaults

Technical specification
- Operating voltage: 5V DC
- Power consumption: < 3W
- Operating temperature range: 0°C till 50°C
- Storage temperature range: -40°C till 85°C
- IP rating: IP22
- Dimensions (HxWxD in mm): 25 x 50 x 70

Compliance
- IEC 62368-1:2023
- EN 55032:2016
- EN 55032:2017