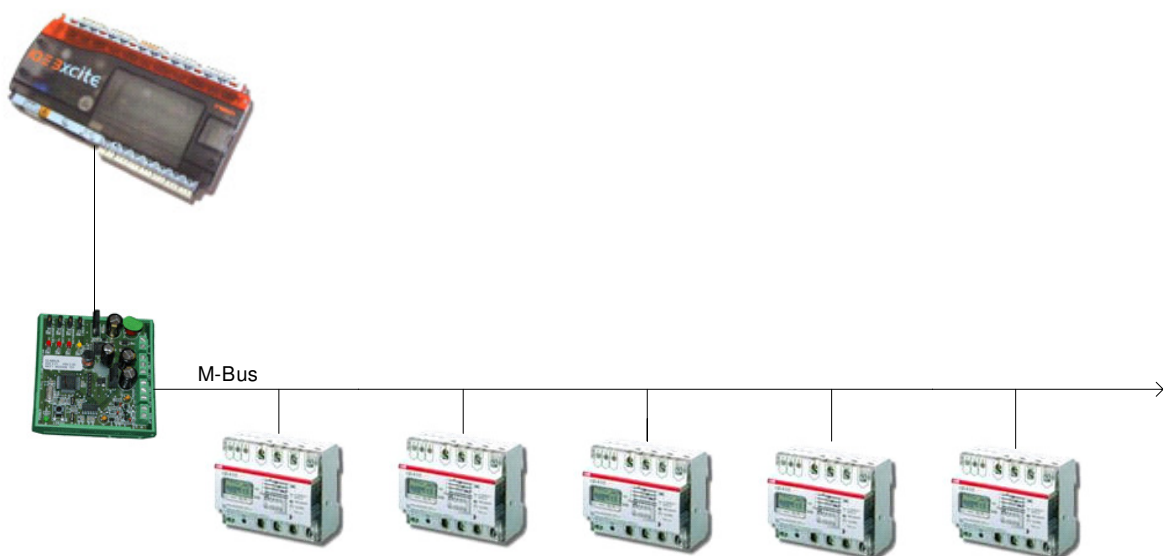## IQ M-Bus Master

Description

The IQ-Mbus-Master is a hardware module for enabling direct connection between energy meters and the Trend BMS System.

The module features Plug & Play connection to the TREND IQ Supervisorport and the values from all connected energy meters are automatically written into predefined analogue nodes. No engineering in the IQ-Controller is needed.

Features

- Direct Trend connection to all M-Bus electricity, heat/cool, gas & water meters
- Plug & Play installation via. Supervisorport connection
- Data stored directly in analogue nodes. No engineering in the IQ needed
- Compatible with all Trend IQ2 and IQ3 Controllers
- Up to 120 Meters on a single IQ Controller

System Overview

Easy Installation

The Meters are installed on the Network with their unique M-Bus Address.

Upon Power Up, the IQ M-Bus Master will scan the M-Bus Network. On board LEDs indicates found meters and data will be sent into the Trend IQ Controller.

The IQ M-Bus Master is configured for Data update every 60 second or 15 min.

Trend Compatibility

A default number of values from each meter are delivered into predefined analogue nodes in the Trend IQ Controller.

In example, the IQ M-Bus-3 delivers 10 values from each connected meter into predefined analogue nodes starting from anode 190. The meter with the lowest M-Address leaves 10 values in anodes 190-199 in the Trend IQ Controller.

Values

Meter value	Meter unit	Trend unit
Energy	Wh	MWh
Energy	J	GJ
Volume	m^3	m^3
Mass	Kg	Kg
On time	Hours	Hours
Flow temperature	°C	°C
Return temperature	°C	°C
Temperature diff.	°C	°C
Power	W	kW
Power	J/h	J/h
Volumen flow	m^3/h	m^3/h
Mass flow	kg/h	kg/h
External temperature	°C	°C
Pressure	Bar	Bar
HCA_Units(Subunit1)	-	-
HCA_Units(Subunit2)	-	-
Volumen(Subunit1)	m^3	m^3
Volumen(Subunit2)	m^3	m^3
Energy(Subunit1)	Wh	MWh
Energy(Subunit2)	Wh	MWh
Energy(Tarif1)	Wh	MWh
Energy(Tarif2)	Wh	MWh
Power(Peak)	W	kW
Voltage	V	V
Current	A	A

M-Bus Compatibility

The IQ M-Bus Master supports all meters on the M-Bus standard, and even a very wide range of manufacturer specific interpretations of the M-Bus protocol.

Among our many supported meter types are leading manufacturers such as:

- ABB
- AquaMetro
- Brunata
- Danfoss
- HydroMeter
- Kamstrup
- Landis & Gyr
- Pollu Therm
- Siemens
- Sontex (NeoVac)
- Zenner