

MBus Master

Model No.:VIR-MBUS-250-IN

The M-Bus Data collector is called as Mbus Master or as Router an automatic data collection device designed for M-Bus meters such as BTU meter. The MASTER r and the M-Bus meter communicate by the industry standard M-Bus interface.

comes with three variations:

- (1) : This is a transparent M-Bus Data Collector . It provides M-Bus power to M-Bus meters, and passes the M-Bus protocol to upper layer device. Sometimes it is called M-Bus convertor.
The interface to the upper layer device could be M-Bus or RS232 .



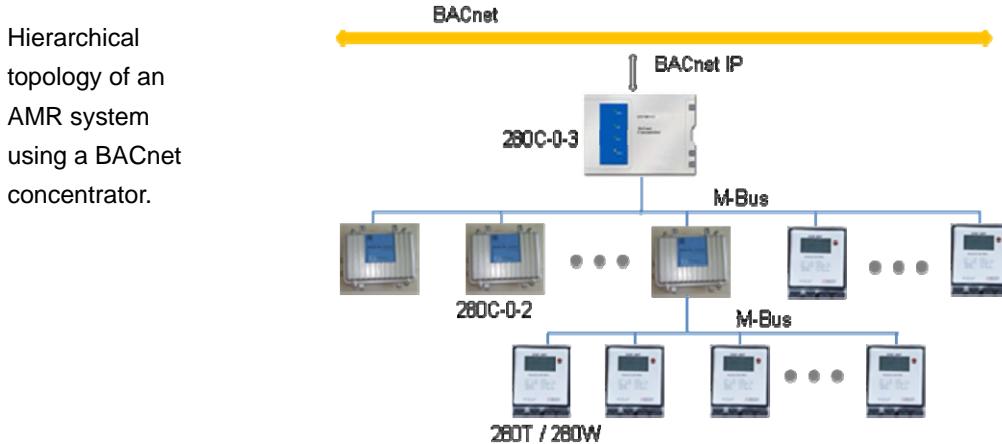
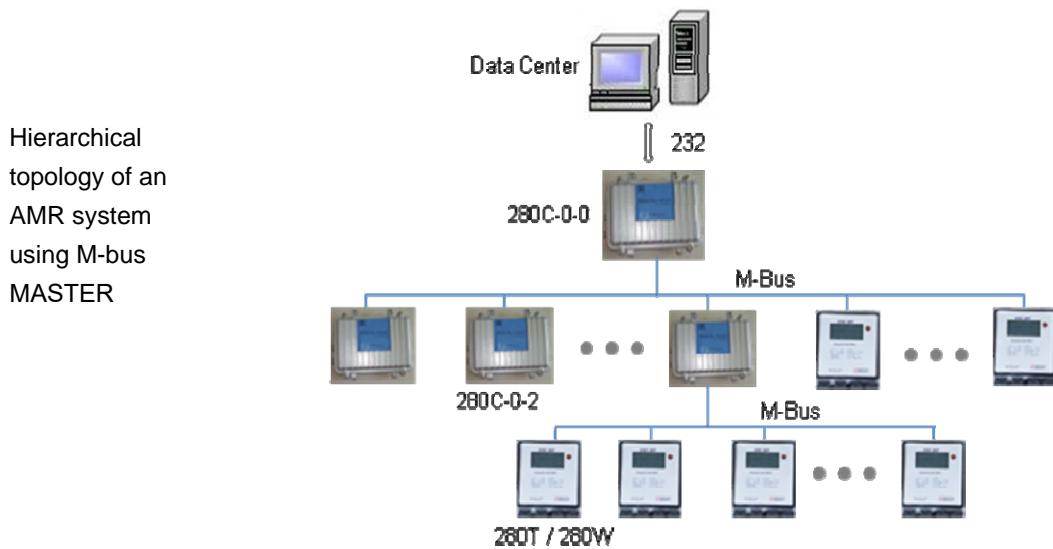
- (2) : This is an intelligent M-Bus Data collector with large storage for scheduled meter reading. It provides M-Bus power to M-Bus meters, automatically reads data from those M-Bus meters, stores those data, and transmits those data to upper layer upon request.
The interface to the upper layer device could be M-Bus

- (3) : This is a transparent M-Bus to BACnet converter. It provides M-Bus interface on one side, and BACnet on the other side.

Each collector is able to support up to 300 M-Bus meters. It can be cascaded to form a hierarchical topology, where a large number of meters can be networked. The figure below illustrates a simple hierarchical system. The collector on the top is , which connects to a computer on one side, and connects to several type sub layer concentrators.

The topology of using BACnet Concentrator is illustrated on the second figure below.

M-BUS Data Collector



Technical Data

M-Bus Concentrator (280-0 / 280C-1)

Features:

- Transmit data upward, transfer command downward
- Large non-volatile flash memory for data storage (280C-1 only)
- Powerful communication capabilities
- Self-diagnosis and self-protection when short-circuit occurs
- Automatic meter reading (280C-1 only)

Operator only needs to set up a schedule on the time and the clients the meter value are to be taken. The concentrator collects and reports the data automatically, reliably and efficiently.

Interface - Downward: M-bus. Default to 2400Bps. Support up to 300 devices

Interface - Upward: For 280C-x-0 concentrator:

M-BUS MASTER

M-Bus, default to 2400Bps

Protocol: M-Bus

For 280C-x-1 concentrator:

RS232 (optional RS485-toRS232 adapter or USB-to-RS232 adapter),

default to 2400Bps

Protocol: proprietary

LEDs: Indicators for communication status, overload alarm and power

Power: 110VAC or 240VAC, 20Watts

Enclosure: Aluminum, IP54

Dimension: 240 x 200 x 80 mm3

Weight: 2.3kg

Features:

- Transmit data upward, transfer command downward
- Support BACnet /IP. Easy to connect to the Internet
- Support BACnet services including Who-is, I-am, read, write, create, delete, etc.
- Standard Ethernet communication
- Support BACnet AI, AO, BI, BO, PG, File and Device
- Large non-volatile flash memory for data storage
- Self-protection over power shutdown

Interface - Downward: M-bus. Default to 2400Bps. Support up to 300 devices

Interface - Upward: BACnet /IP. Ethernet: full duplex, 10M / 100M, self-adaption

LEDs: Indicators for DATA, NET, RUN, FAULT and Power

Power: 24VDC or 110VAC or 220VAC, 10Watts

Operation Temp: 0 ~ 45°C

Storage Temp: -20 ~ 70°C

Enclosure: IP30

Dimension: 168 x 110 x 34 mm3

Weight: 0.6kg