MBUS Data Loggers for fixed networks



altecnic

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Application

The Altecnic MBUS Data Loggers are made up of our MBus Metering Gateway 205-3001, combined with an MBus Master from the 205-301 Series, fully assembled and connected in a protective enclosure.

This turn-key solution is used to read up to 512 MBus meters, compile meter data in customised reports and deliver it to a receiving system by a set time schedule and integration protocol via the fixed network

Technical Specification

Mechanics

Casing material: Polystyrene (box) and

polycarbonate (transparent door)

250 x 200 x 122 Dimensions (w x h x d): Protection: IP55 Weight: 1600 g Mounting: Wall mounting

Electrical connections

Screw terminal, cable 0.0 - 2.5 mm² Supply voltage:

0.5 Nm tightening torque

MBUS master port: Pin terminal, solid wire Ø 0.6-0.8mm Screw terminal, cable 0.25 - 1.5 mm² MBUS slave port 1:

0.5 Nm tightening torque

MBUS slave port 2: Screw terminal, cable 0.25 - 1.5 mm² 0.5 Nm tightening torque

<18 W for solutions without RS232,

USB master port: Type A Type mini B USB slave port: Network: RJ45 (ethernet)

Electrical characteristics

Nominal voltage: 100 to 240V AC (±10%)

Frequency: 50 - 60 Hz

<40 W for solutions with RS232 <6 W

Power consumption - nom: CAT 3 Installation category:

Environmental specification

Power consumption - max:

-20°C to 55°C Operating temperature:

Operating humidity: 5% to 90%, non-condensing

0 to 2000m Operating altitude:

Population degree: Degree 2 Usage environment: Indoors -40 to 85°C Storage temperature:

Technical Specification Continued

User Interface

Green LED: Power Red LED: Error Yellow LED: 205-3001: status Ethernet,

205-301: ongoing MBUS communication

Blue LED: USB active Push button: Factory reset Configuration: Web interface (HTTP), auto configuration

(URL) Telnet, REST/JSON

MRUS

Interfaces: MBUS master. MBUS slave MBUS standard: BS EN 13757 Transparent MBUS: TCP/IP and MBUS 2 wire slave interface

(software limit does not apply to Transparent)

TCP/IP and MBUS 2 wire slave interface

Virtual MBUS: Decryption:

Integrated MBUS Master

42 VDC - 205-301 Nominal voltage, master port:

28VDC - 205-3001

300 and 2400 bit/s MBUS baud rate, master port: Max number of MBUS devices (software limit): Software licence for

8, 32, 64, 128, 256 & 512 meters.

MBUS search modes: Primary, secondary Max cable length: 1000m (100nF/km, max. 90 ohm)

Max number of unit loads (hardware limit):

8T/12mA - 256T/384 mA

MBUS Slave Interface

MBUS baud rate, slave port: 300 and 2400 bit/s Nominal voltage, slave port: 21-42 VDS Addressing mode: Primary, secondary

General

Real time clock backup: 24 hour Real time clock accuracy: <2s per day Intelligent script engine for active Script engine: content generation Software / Firmware update: Web interface HTTP, FTP, SMTP (email) Metering reports: Modbus, REST, ISON-RPC & DLMS Additions: Continuous readout mode: Modbus, REST

Data Storage (examples) - 15 minute values

1 meter: 15 years, hourly values > 15 years 32 meters: 4 years, hourly values > 15 years 128 meters: 1 year, hourly values ≈ 4 years 256 meters: 0.5 year, hourly values ≈ 2 years 512 meters: 3 months, hourly values ≈1 year

Fixed Network (Ethernet)

Speed and duplex: Auto 10/100 Mbit half/full duplex

Approvals:

EMC BS EN 61000-6-2, BS EN 61000-6-3 Safety: BS EN 61010-1, CAT 3

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MBUS Data Loggers

The Altecnic Data Loggers are made up of the MBUS metering gateway 205-3001, combined with the MBUS extender 205-301 fully assembled and connected in a protective enclosed box.

This turn key solution can be used to read up to 512 MBUS meters, compile meter data into customised reports and deliver to a receiving system by a set time schedule and integration protocol via a fixed network.

Reference Numbers and Descriptions

Ref No	Description	No of Meters
205-3001	MBUS data logger for fixed network -	8 meters
205-3002	MBUS data logger for fixed network -	32 meters
205-3003	MBUS data logger for fixed network -	64 meters
205-3004	MBUS data logger for fixed network -	128 meters
205-3005	MBUS data logger for fixed network -	256 meters
205-3006	MBUS data logger for fixed network -	512 meters

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