

Overview



- Advanced datalogger with real-time timestamping, featuring an RTC synchronized via NTP for accurate long-term data archiving.
- Multiple communication interfaces, including RS-232, RS-485, USB, Ethernet, and global 4G LTE connectivity.
- M-Bus master functionality, supporting up to 2 × 8 devices for comprehensive multi-utility metering.
- Flexible analog input capabilities, offering 8 channels for current, voltage, resistance, or temperature (PT100/PT1000) measurements.
- 8 digital inputs supporting sink/contact signals for counters, status monitoring, and alarms.
- 8 digital outputs with +24 V open-contact design for control and automation functions.
- FTP client for periodic data transmission in CSV format.
- MQTT client for JSON-based cloud data integration.
- Remote configuration and firmware upgrades over 4G for simplified device management.
- Broad protocol support, including Modbus RTU, Modbus TCP/IP, M-Bus, MQTT, FTP (server/client), and IEC 60870-5-104.

Characteristics

General

Power supply:	9 – 36VDC
Overvoltage protection:	>1000V (max. 5 sec)
Consumption:	<10 VA

Specifications

CPU:	Cortex M4
Flash:	8 MB, up to 5 years storage.
GSM:	850/900/1800/1900 MHz
WCDMA:	B1/B2/B4/B5/B6/B8/B19
LTE-FDD:	B1/B2/B3/B4/B5/B7/B8/B12/B13/ B18/B19/B20/B25/B26/B28/B66
LTE-TDD:	B34/B38/B39/B40/B41

Interfaces

RS232:	Up to 15m, speed up to 57600 bps
RS485:	Up to 1.2 km, speed up to 57600 bps
M-Bus:	Supports up to 8 devices
USB:	Type B, ver. 2.0
Ethernet:	RJ45, 10/100 Mbps, range up to 100m

Digital inputs/outputs

Digital inputs.	8 sink/contact inputs
Digital outputs	8 open contacts +24V

Analog inputs

Current:	0/4-20mA (error: 0.15%)
Voltage:	0-10V (error: 0.15%)
Temperature:	PT100 or PT1000 sensors

Supported protocols

Modbus RTU, Modbus TCP/IP, M-Bus, MQTT, FTP (server/client), IEC60870-5-104.

LED Indicators

Power supply status
Discrete I/O signal status for each port
4G connection status
Ethernet connection status
On/Off status of each digital input

Working conditions

Working temperature: -25°C to +60°C
Storage temperature: -40°C to +60°C
Humidity range: 5 to 95% (non-condensing)

Regulatory approvals

EN 55022:2000+A1+AC:2002+A2:2003
EN 55024:2000+A1:2003+A2:2003
EN 61000-4-2+A1+A2:2002
EN 61000-4-3+A1:2004
EN 61000-4-4:2005
EN 61000-4-5:2002+A1:2003
EN 61000-4-6:2002+A1:2003



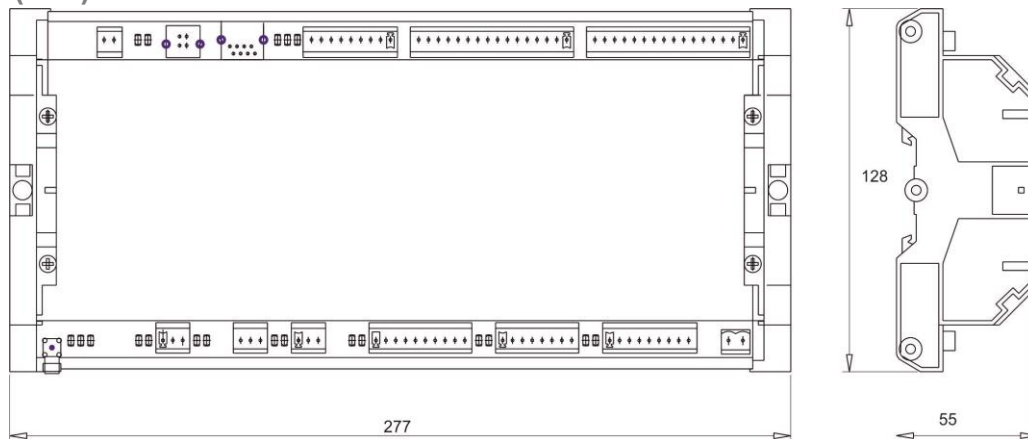
Physical characteristics

Dimensions:	277x128x50 mm
Weight:	600 g
Material:	PC/ABS
Protection rating:	IP20
Mounting:	DIN rail compatible

Other features

Made in the EU

Dimensions (mm)



Ordering code

MODEL	Interf ace	Interf ace	Interf ace	Interf ace	Interf ace	Interf ace	Interf ace	Interf ace	Interf ace	Interf ace	Analog amount	Analog type	Digital inputs	Digital outputs
374	A	B	C	D	E	F	G	H	I	J	K	L	M	N
0 – None														
1 – RS485														
2 – RS232														
0 – None														
1 – RS485														
2 – RS232														
7 – RS232 and RS485														
0 – None														
1 – RS485														
2 – RS232														
4 – M-bus														
0 – None														
1 – RS485														
2 – RS232														
4 – M-bus														
0 – None														
1 – RS485														
2 – RS232														
0 – None														
1 – RS485														
2 – RS232														
0 – None														
1 – RS485														
2 – RS232														
0 – None														
1 – RS485														
2 – RS232														
6 – 4G LTE														
0 – None														
1 – Ethernet														
0 – None														
0 – None														
1-8 Analog inputs amount														
0 – None														
1 – Current 0-20mA														
2 – Voltage 0-5V														
3 – Voltage 0-10V														
4 – PT100														
5 – PT1000														
0 – None														
1 – 4 digital inputs														
2 – 8 digital inputs														
3 – 12 digital inputs (instead of digital outputs)														
4 – 16 digital inputs (instead of digital outputs)														
0 – None														
4 – 4 Digital output														
8 – 8 Digital output														

Example: **374.1244112.6.1.0.81.2.8** MPC-374 with 3xRS485 + 2xMbus + 2xRS232 + Ethernet + 4G + 8x Analog inputs (current) + 8x Discrete inputs + 8x Discrete output