Overview

- Datalogger with timestamp of records (RTC, Real Time Clock).
- Ethernet, USB, RS232, RS485, GSM/GPRS, M-Bus communication.
- Galvanic isolation between power supply and interfaces.
- Remote configuration and updates through GSM/GPRS or Ethernet port.
- Protocols Modbus RTU, Modbus TCP/IP, M-Bus, Data/Req, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, IEC60870-5-104:2000.
- External devices power supply (up to 10Vcc / 20mA)
- Up to 8 digital inputs (contact / impulse / alarm).

General description

MPC-333 Controller was designed to measure, record and analyze real time signals. Stored data can be sent to remote users through GSM/GPRS modem or Ethernet port.

In the event of loss of communication, the data is safely stored in the internal memory until communication is restored, providing safety and reliability to processes and control systems.

Supports the most common protocols over serial or remote port (such as M-Bus, Modbus TCP/IP, Modbus RTU, IEC60870-5-104: 2000 ...), and a special transmission mode; “transparent mode” for special manufacturer protocol, so almost any device can be connected.

Some potential applications of the MPC-333 are; environment sensors and events logging in control systems, remote electricity consumption monitoring, remote management for isolated installations, energy efficiency systems... all through a single device with open & standard communication (Modbus), greatly simplifying its implementation within the SCADA / user software.

The communication ports are selectable, allowing you to choose exactly the necessary equipment for each installation.

Ordering code

Model	Interface	Interface	Interface	Interface	Interface	Ext. supply	Digital inputs	RTC	Supply
702 . 031 .	A	B	C	D .	E .	F .	G .	H .	I
	0 – None 1 – GPRS 2 – RS232	0 – None 1 – RS485 2 – RS232 3 – Data/Req 4 – M-Bus 5 – Current loop	0 – None 1 – RS485 2 – RS232 3 – Data/Req 5 – Current loop	0 – None 1 – RS485 2 – RS232	0 – None 1 – Ethernet	0 – None 1 – External power supply	0 – None 4 – 4 digital inputs 8 – 8 digital inputs	0 – None 1 – Real Time Clock (RTC)	1 – Power supply 9-36 Vdc 2 – Power supply 12-50 Vdc

Example: **702.031**.1412.1.0.8.1.2 GSM/GPRS modem, M-Bus port, RS485 port, RS232 port, Ethernet, w/o power supply for external devices, 8 digital inputs, RTC and power supply.

Characteristics

General

Power suply:	9 – 36 Vcc / 12 – 50Vcc
Overvoltage protection:	>1000V (max. 5 sec)
Consumption:	<10 VA

Specifications

CPU:	ARM7 (55MHz)
GSM/GPRS:	3 bands 900/1800/1900 MHz
Flash:	2 MB (Up to 8 MB,under request*) Up to 5 years storage.

Interfaces

RS232:	Up to 15m distance, speed up to 19,2 Kbits/s
RS485:	Up to 1.2 km, speed up to 19.2 Kbits/s
USB:	(configuration) Tipo B, ver. 2.0
Ethernet:	RJ45 Twisted pair Ethernet 10/100 Mb, up to 100m.
Current loop:	<30V, 14-20mA, up to 6 km, speed up to 19,2 Kbit/s
M-Bus:	Up to 8 devices. Self configurable
Data/Req:	KAMSTRUP Up to 8 devices.
Digital inputs.	4/8 contact/impulse inputs

External devices power suply

3,7/5/6/8/10 Vcc max. 20mA

Protocols

Modbus RTU, Modbus TCP/IP, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, IEC60870-5-104:2000

LED Indication

Power suply
Read/write of each port
GSM/GPRS connection status
Ethernet connection status
On/Off indication of each digital inputs

Climate conditions

Working temperature:	-25 .. +60°C
Storage temperature:	-40 .. +60°C
Humidity range:	5 – 95%, w/o condensation

Regulatory approvals

EN 55022:2010
EN 55024:2010
EN 61000-4-2:2009
EN 61000-4-3:2006
EN 61000-4-3:2006/A1:2008
EN 61000-4-3:2006/A2:2010
EN 61000-4-4:2004
EN 61000-4-4:2004/A1:2010
EN 61000-4-6:2009
EN 60950-1:2006
EN 60950-1:2006/A11:2009

CE

Physical characteristics

Dimensions:	197x128x50 mm
Weight:	400 g
Material:	PC/ABS
Protection type:	IP20

Mounting

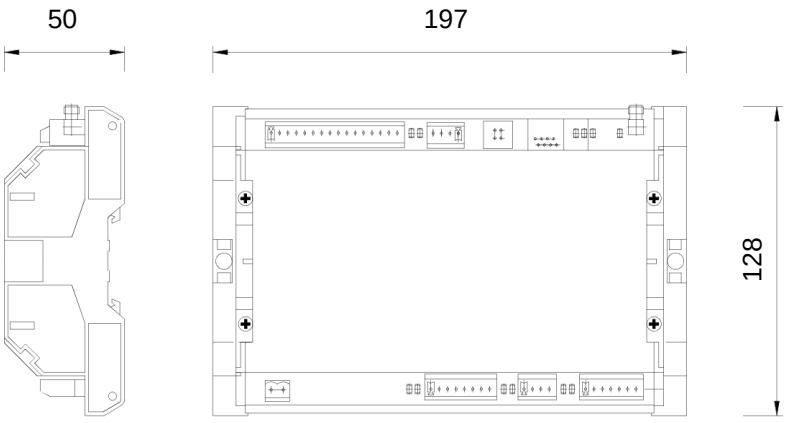
DIN rail

Other features

Made in EU

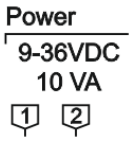
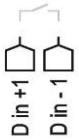
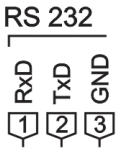
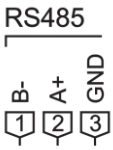
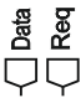
* Check for availability

Dimensions (mm)



Connection

All the connection terminal blocks are removable, which facilitate the wiring process.

 Power supply (w/o polarity)	 Digital inputs (4 / 8)	 M-Bus
 RS232 port	 RS485 port	 Data/Req

Operation

Configurations and updates are made using the software MPC-Config Tool, through local ports (USB, RS232, RS485) or remote connection through GSM/GPRS modem or Ethernet port (default socket port: 502)

To access advanced features, please contact with **Advanticsys** technical support.

Cautions

- Installation and wiring must be made only by qualified personal.
- Remove power supply before connect or disconnect the input/output terminal blocks.
- Double-check connections and polarities before switch on the power supply to avoid permanent damages.

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