Customizable GSM/GPRS, LAN controller

MPC-333

Overview

MPC-333 controller is created for data logging and analyzing in a real time. Using GPRS/GSM and/or Ethernet, controller sends saved data and reports to remote users.

Controller supports most of protocols and interfaces (RS232, RS485, MBUS, Data/Req, Current loop, Discrete inputs), so it can be used with different brands and models of counters. Our special "TRANSPARENT" data transfer protocol enables controllers to use with practically any device.

Device supports wide range of protocols (and can be extended by our programmers, if you need some special). For data exchange over GPRS/GSM, Ethernet and/or any Serial interfaces, controller uses Modbus TCP/IP, Modbus RTU, IEC60870-5-104:2000

Our clients – GAS, Heat, Watering suppliers, Industry companies in EU, Ukraine, Central Asia.

Default features

- ✓ Reading data from energy carrier meters;
- ✓ "TRANSPARENT" remote data reading from counters (special manufacturers protocols);
- ✓ Discrete input/output ports;
- ✓ Independent data log (up to 2MB) with real time stamp;
- ✓ Remote configuration and upgrading possibilities over GPRS/GSM and Ethernet;
- ✓ Wide range of interfaces: GSM/GPRS, Ethernet, RS232, RS485, Current Loop, USB, Data/Req, Mbus, IEC60870-5-104:2000;
- ✓ Galvanically isolated interfaces and power supply;
- ✓ Power supply for external powering of counters.

Benefit to the client

- ✓ **Economy**, because controller does a lot of mechanic work, so your professionals can do more important work;
- ✓ Increase **efficiency**, because the data are sent to a central computer continuously. If connection is lost, data will be safe kept in controllers memory, until connection will be reestablished;
- ✓ Increases **security**, because the relevant information is rapidly shorten response time;
- ✓ **Versatile**, because this controller can retrieve data from different manufacturers and even different types of meters;
- ✓ **Simplicity**, because of intuitive control and optimally assembled LED's it is easy to monitor and maintain equipment;
- ✓ **A good partner**, because we not only help you customize and will make equipment, but also flexibly adapt controller, if your demands will change.

Customizing device

The exceptional feature of this device - a flexible hardware and software configuration, it depends on customer needs, you can choose the desired interface and functionality.

Interface	RS232	RS485	Data/Req	MBUS	Current loop	USB 2.0	Ethernet	GSM (GPRS)	Power for ext.dev
A	○							○	
B	○*	○*	○*	○*	○*				
C	○*	○*	○*		○*				○
D	○	○							
E							○		
F						○			
Diskretiniai IN	8								

○- optional one interface per socket; * -galvanically isolated

Overall specification

CPU: ARM7
Flash: archive storage of 1-8 MB, battery backup, data valid up to 5 years
GSM/GPRS: 3 band 900/1800/1900 MHz

Interfaces

RS232: up to 15m (50ft), speed up to 19,2 Kbits/s
RS485: up to 1.2 km (0.75 mi), max 32 transivers, up to 19.2 Kbits/s
Data/Req: (KAMSTRUP) data transfer interface
Mbus: up to 8 devices
Current loop: <30V, 14-20mA, up to 6 km (3.71mi), speed up to 19,2 Kbit/s
USB: type B, ver. 2.0,
Ethernet: twisted pair Ethernet 10/100 Mb, up to 100m (328ft)
Discrete Inputs: 8 sink contacts

LED indication

Power
Discrete Input signal status for each port
Serial ports read/write for each port
Ethernet status
GSM/GPRS modem status

Protocols

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

General

Power supply: 9 – 36 VDC / 10VA
Over-voltage protection: >1000V
Power consumption: <10VA
Power for ext. devices: 3,7/5/6/8/10 VDC / 20mA

Physical characteristics

Dimensions: 197x128x50 mm (7,76x5,04x1,97 in)
Weight: 400 g
Case fixing type: DIN32
Protection type: IP20

Climate conditions

Operating temperature: -25 .. +60°C (-13..140°F)
Storage temperature: -40 .. +60°C (-40..140°F)
Humidity range: 5 – 95%, non-condensing

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

Programming and updating

Remotely: GSM/GPRS, RJ45 (Ethernet)
Locally: USB, RS232 or RS485

Other features

Real time clock
Mbus auto setup

Warranty

Warranty period: 2 years

Manufacturer:

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