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MPC-123



Main features:

- Freely chosen interfaces: up to 4 interfaces.
- Supported interfaces: RS485, RS232, Opto (Kamstrup), Mbus, Current loop, GSM/GPRS.
- Discrete inputs: up to 4 devices Analog inputs: up to 2 devices
- Supported protocols: Modbus RTU, Modbus TCP/IP, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, SNTP, IEC60870-5-104:200 and transp
- Special: transparent non-standard protocol data transfer
- Power: 85 250 VDC (10VA)
- Power for external devices: 3,7/5/6/8/10 VDC (20mA) and 24 VDC (50mA) Internal batteries: 2600mAh (reading data 4 times a day, on power fail controler can work about 14 days)
- Additional battery: 350mAh (for discrete chanals, to ensure wakeup of Controller's on discrete event)

First interface						
GSM/GPRS	4 band 850/900/1800/1900 MHz					
Second interface (galvanically isolated)						
RS485	distance up to 1,2km, max 32 transivers, speed up to 19.2 Kbits/s					
RS232	distance up to 15m, speed up to 19,2Kbit/s					
Opto	(Kamstrup) data transfer interface					
MBus	up to 8 devices					
2 wire active Current Loop	25-27V, 14-20mA, up to 6km, speed up to 19,2Kbit/s					
Universal	jumper switchable					
Third interface						
RS485	distance up to 1,2km, max 32 transivers, speed up to 19.2 Kbits/s					
RS232	distance up to 15m, speed up to 19,2Kbit/s					
Discrete and Analog interfaces						
Discrete IN	4	sink contact				
Analogi IN	2	current, reading 10 times per second				
Protocols						
	Modbus RTU Modbus TCP/IP IP ICMP UDP TCP DHCP PPP ARP SNTP IEC60870-5-104:2000 DynDNS FTP server FTP client					

1	DNS client					
General						
One-phase power	85-250 VAC					
Galvanic isolation	>1000V					
Capacity	<10VA					
Internal battery	2x (3,7V 2600 mAh) and 3,7V 350mAh					
Power for external devices	3,7/5/6/8/10 VDC (20mA)					
Specification						
CPU	ARM Cortex-M3					
Memory	archive storage 2-8 MB, independant data storage with	but power about 5 years				
LED indication						
Status of discrete input, for each port	+					
GSM/GPRS modem status	+					
Programing and updating						
Remote	GSM/GPRS					
Locally	USB, RS232, RS485					
Physical characteristics						
Dimmensions	199x179x71.5 mm					
Weight	830 g	830 g				
Mounting type	wall mounting					
Safety class	IP65					
Climate conditions						
Operating temperature	-25+60 °C					
Storage temperature	-40+60 °C					
Humidity range	5-95%, non-condensing					
Other fuetures						
Real time clock	+					
MBus auto setup	+					
24 months warranty period	+					
MAX number of interfaces (for filter)						
Number of supported interfaces	3					
RS485	+	distance up to 1,2km, max 32 transivers, speed up to 19.2 Kbits/s				
R5232	+	distance up to 15m, speed up to 19,2Kbit/s				
Opto	+	(Kamstrup) data transfer interface				
MBus	+	up to 8 devices				
Current Loop	+	Active or Pasive, 2 or 4 wire				
Ethernet	-	twisted pair, 10/100 Mbps, distance up to 100m				
USB (device)	+	Type B, ver. 2,0				
USB (host)	-	Type A, ver. 2,0				
HART	-					
Power for exteranl devices	+ 3,7/5/6/8/10 V					
Universal	- Jumper switchable					
GSM/GPRS	+ 4 band 850/900/1800/1900 MHz					

OVERVIEW

MPC-123 controller is designed for GAS consumption measuring, contains hermetic enclosure and internal batteries -for uninteruptable work even on power failure.

MPC-123 is created for data reading, archiving and analyzing in a real time. Using GPRS/GSM controller sends saved data and reports to remote users.

Controller supports most of protocols and interfaces (RS232, RS485, MBUS, Opto, Current loop, Analog and Discrete inputs), so it can be used with different brands and models of meters. Our special <u>"TRANSPARENT"</u> 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 any Serial interfaces, controller uses Modbus TCP/IP, Modbus RTU, IEC60870-5-104:2000, SNTP and other protocols.

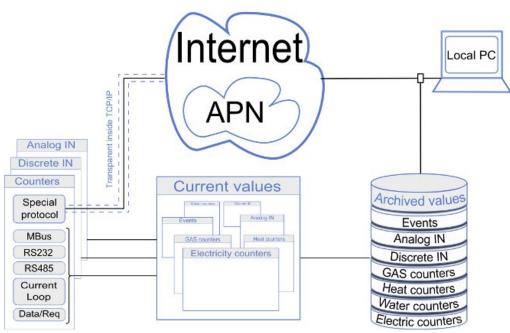
Our clients – GAS, Heat, Watering suppliers, Industry companies in EU, Ukraine, Central Asia.

DEFAULT FEATURES

- Reading data from energy carrier meters;
- "TRANSPARENT" remote data reading from counters (special manufacturers protocols);
- Analog and Discrete input ports;
- Independent data log (up to 8MB) with real time stamp;
- Remote configuration and upgrading possibilities over GPRS/GSM;
- Wide range of interfaces: GSM/GPRS, RS232, RS485, Current Loop, USB, Opto, Mbus;
- Galvanically isolated interfaces and power supply;
- Hermetic enclosure for quich instalation, no need to use additional rack;
- Device secured by opening alarm.

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	Opto	MBUS	Current loop	USB 2.0	GSM (GPRS)
A							0
В	0*	0*	0*	0*	0*		
С	0	0					
D						0	
O-optional one interface per socket; *-galvanically isolated							
Discrete	nputs	1	4	Analo	og Inputs		2

Manufacturers code:

	0 - none 1 - GPRS/GSM	0 - none 1 - RS485 2 - RS232 3 - Opto 5 - Current loop (CL) 6 - RS485, RS232, Opto, Mbus and CL *	0 - none 1 - RS485 2 - RS232	0 - none 1 - Power for external devices	0 - none 1 - 1 analog input 2 - 2 analog inputs	0 - none 4 - 4 discrete inputs 5 - 4 discrete inputs, power from batteries
702.039.	Α	В	С	. D	E	. F
	* - jum	per selectable				

