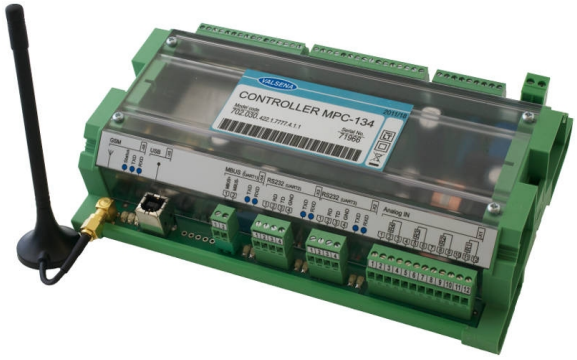
V.Bartkeviciaus company "VALSENA"
Savanoriu ave. 271 - 412 Kaunas LT 50131, Lithuania
Phone: 370 37 310603 Fax: 370 37 310648
E-mail: valsena@valsena.lt

MPC-134



Main features:

- Freely chosen interfaces: up to 4 interfaces
- Suppoerted interfaces: RS485, RS232, Opto (Kamstrup), Mbus, GSM/GPRS
- Discrete inputs: up to 16 devices
- Discrete outputs: up to 8 devices
- Analog inputs: up to 4 devices
- Wide choise of Analog inputs (Current, Voltage, Thermoresistance (Pt100, PT1000, NTC), Resistance)
- Supported protocols: Modbus RTU, Modbus TCP/IP, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, SNTP, IEC60870-5-104:200 and transparent
- Power: 9-36 VDC (10VA)

First 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 interfence	
MBus	up to 8 devices	
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	
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	
Fourth interface		
GSM/GPRS	3 band 900/1800/1900 MHz	
Discrete and Analog interfaces		
Discrete IN	16	sink contact
Discrete OUT	8	open collector, >50VDC and >500mA
Analogi IN	4	resistance, voltage or 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 DNS client	
General		
Power	9-36 VDC	
Galvanic isolation	>1000V	
Capacity	300mA max	
Specification		
CPU	ARM7	
Memory	archive storage 1-8 MB, independant data storage without power about 5 years	
LED indication		
Power	+	
Status of discrete input, for each port	+	
Serial ports read/write for each port	+	
GSM/GPRS modem status	+	
Programing and updating		
Remote	GSM/GPRS	
Locally	USB, RS232, RS485	
Physical characteristics		
Dimmensions	197x128x50 mm	
Weight	450 g	
Mounting type	on DIN32 rail	
Safety class	IP20	
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	4	
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 interfence
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-143 controller is created for data logging and analyzing in a real time. Using GPRS/GSM modem, controller sends saved data and reports to remote users.
Controller supports most of protocols and interfaces (RS232, RS485, MBUS, Opto, Discrete inputs, Discrete

outputs, Analog 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 and/or 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.

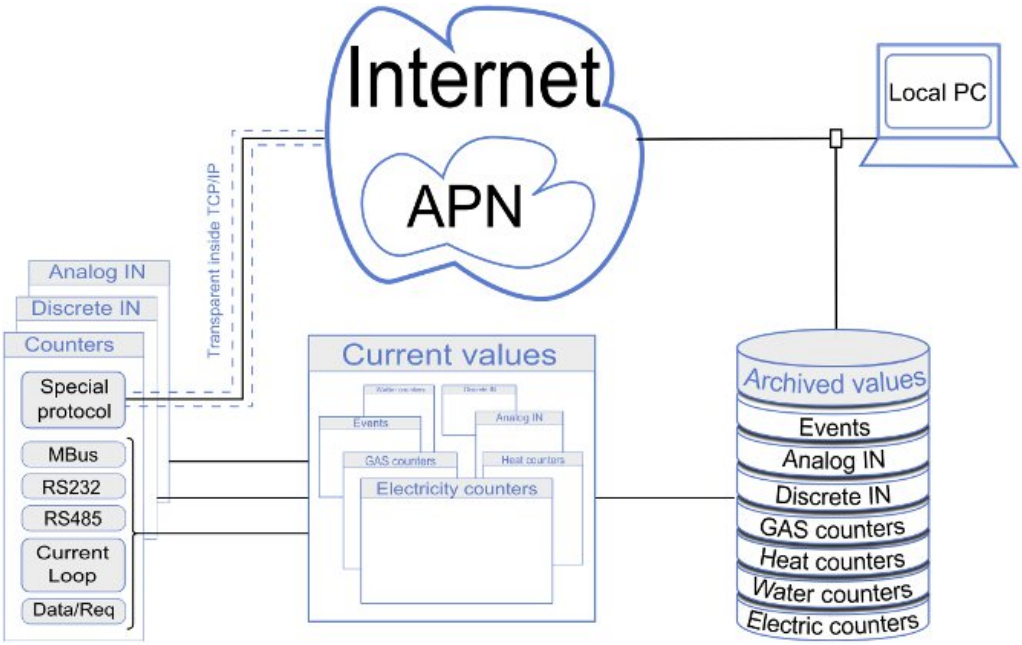
DEFAULT FEATURES

- Reading data from energy carrier meters;
- "TRANSPARENT" remote data reading from counters (special manufacturers protocols);
- Discrete input/output ports;
- Analog inputs;
- 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, Opto, Mbus;
- Wide choise of Analog inputs (Current, Voltage, Thermoresistance (Pt100, Pt1000, NTC), Resistance);
- Some interfaces are galvanically isolated.

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

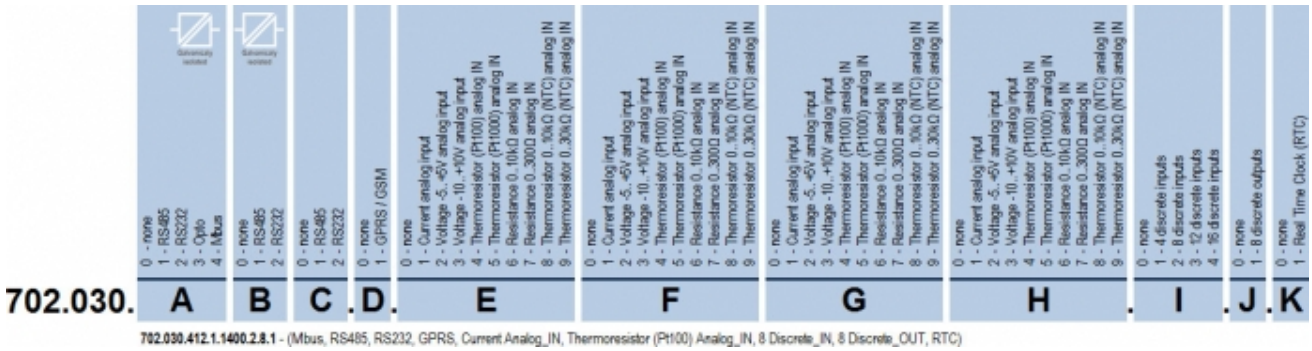
The exceptional feature of this device - a flexible hardware and software configuration, it depends on customer needs, you can choose the desired interface and functionality.

Interface	RS232	RS485	Opto	MBUS	GSM (GPRS)
A	○*	○*	○*	○*	
B	○*	○*			
C	○	○			
D					○

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

Discrete IN	16	Discrete OUT	8	Analog IN	4

Manufacturers code:



702.030.412.1.1400.2.8.1 - (Mbus, RS485, RS232, GPRS, Current Analog_IN, Thermoresistor (Pt100) Analog_IN, 8 Discrete_IN, 8 Discrete_OUT, RTC)