

## MPC-143



### OVERVIEW

MPC-143 converter is created for data logging and analyzing in a real time. Using GPRS/GSM converter sends saved data and reports to remote users.

Converter supports most of protocols and interfaces (RS232, RS485, MBUS, Data/Req, Discrete inputs, Analog inputs), so it can be used with different brands and models of counters. Our special "TRANSPARENT" data transfer protocol enables converters 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, converter uses Modbus TCP/IP, Modbus RTU, IEC60870-5-104:2000 protocols.

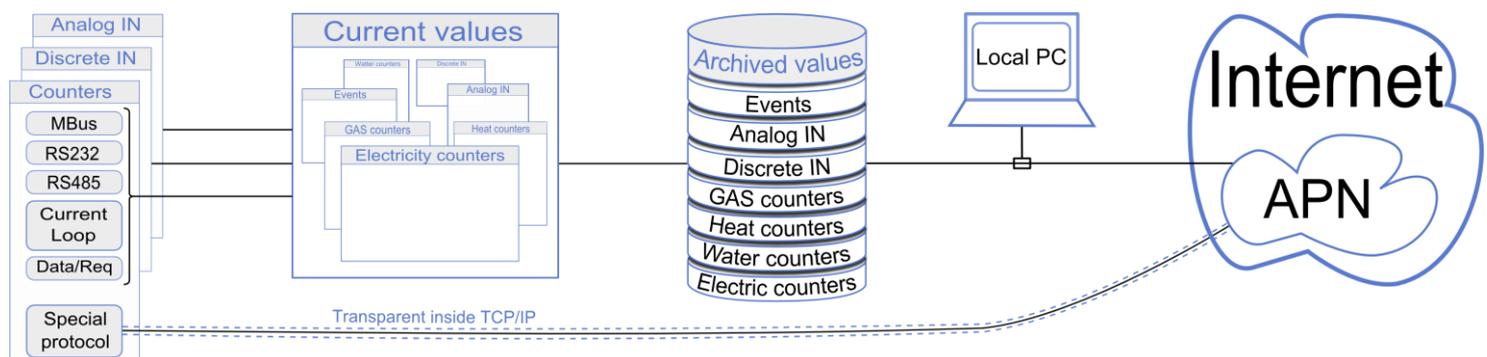
Our clients – GAS, Heat, Watering suppliers, Industry companies in EU, Ukraine, Central Asia.

### DEFAULT FEATURES

- ✓ Reading data from energy carrier meters;
- ✓ "TRANSPARENT" remote data reading from counters (special manufacturers protocols);
- ✓ Wide range of interfaces: GSM/GPRS, RS232, RS485, Data/Req, Mbus, Analog and Discrete input ports;
- ✓ Independent data log (up to 8MB) with real time stamp;
- ✓ Remote configuration and upgrading possibilities over GPRS/GSM;
- ✓ Galvanically isolated interfaces and power supply;

### BENEFIT TO THE CLIENT

- ✓ **Economy**, because converter does a lot of mechanic work, so your professionals can do more important work;
- ✓ **Flexibility**, because you can customize hardware and software settings;
- ✓ Increase **efficiency**, because the data are sent to a central computer continuously. If connection is lost, data will be safe kept in converters memory, until connection will be reestablished;
- ✓ Increases **security**, because the relevant information is rapidly shorten response time;
- ✓ **Versatile**, because this converter 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 device and will make equipment, but also flexibly adapt converter, 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	GSM (GPRS)
A					○
B	○*	○*	○*	○*	
C	○*	○*			
D	○				
<b>Discrete IN</b>		4	<b>Analog IN</b>		3

○-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, up to 2 devices  
**Mbus:** up to 8 devices  
**Discrete IN:** 4 sink contacts  
**Analog IN:** 1 thermal-resistant, 2 voltage/current

### LED indication

**Power**  
Discrete Input signal status for each port  
Serial ports read/write for each port  
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:** 15 – 36 VDC / 10VA  
**Over-voltage protection:** >1000V  
**Power consumption:** <10VA  
**Battery charging:** lead-acid, 12V (battery not included), working time up to 72hrs with 7Ah battery

### Physical characteristics

**Dimensions:** 107x128x50 mm  
**Weight:** 275 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 61010-1:2002  
EN 61010-1:2001  
IEC 61010-1:2001

### Programming and updating

**Remotely:** GSM/GPRS  
**Locally:** RS232 or RS485

### Other features

Real time clock  
Mbus auto setup  
SMS on alarm

### Warranty

**Warranty period:** 2 years

### Manufacturer:

**Company "VALSENA"**  
Savanorių pr. 271 - 412  
Kaunas LT 50131, Lithuania  
Phone: +370 37 310603  
Fax: +370 37 310648  
E-mail: valsena@valsena.lt

### Distributor: