Presentation created by:
Alvydas Narijauskas
alvydas@valsena.lt

Valsena

Manufacturer of electronic devices

About company

V.Bartkeviciaus enterprise “Valsena” was founded on 4’th of June in 1996. The company's main line of business are designing and manufacturing of a unique hardware and software electronic devices.

At the year from 1997 to 1998, has been employed main core of our professionals (most of them has been working in Kaunas Radio Measurements Research Institute). They experience ensure high quality in designing, producing and programming of a unique microprocessor based equipment.

About company

Since 2008 03 09 the company is working by quality management system - ISO 9001:2008, certificate no. VST.08K.004. Our products are certified and comply by EN standard.

Our mission - to expand range of non-standard equipment to fully meet customers need's, improve processes of designing and producing of unique software and hardware products.

Groups of products

- Protocol converters (RS232/RS485 to M-Bus, RS232 to RS485/422 and etc.)
- Indicators (Electro energy, liquid, temperature, ….)
- Controllers
- Other product’s according to special customer orders

Controllers

At the moment this is our main products line, they account for about 80% of entire business.

www.valsena.lt

Purpose of Controllers

- Unified collecting data from different interfaces
- Store data archive in energy independent memory
- Remote operating for data transfer, updating and upgrading
- Independent SMS alerting in case of emergency conditions

Interfaces

Valsena made controllers supports wide range of interfaces:

1. RS485
2. RS232
3. Data/Req
4. M-Bus
5. Current loop
6. Ethernet
7. GSM/GPRS
8. USB (host)

also Analog_IN, Discrete_IN and Discrete_OUT ports.

Protocols

- Modbus RTU
- Modbus TCP/IP
- IP
- ICMP
- UDP
- TCP
- DHCP
- PPP
- ARP
- SNTP
- IEC60870-5-104:2000
- Transparent
- … can be added more

Data archive

For data archive on controllers can be installed from 1 to 8 MB (by default is 2MB) of flash. Data retention are more then 5 years.

For example MPC-374, by default can store:

Analog_IN – 1575
Discrete_IN – 1320
GAS meters – 2100
Events – 1650
D_IN impulse counter – 2288
Water meters – 1400
Electric meter – 562
Diagnostic – 1320

Storage place can be set individually for each order .

Remote operating

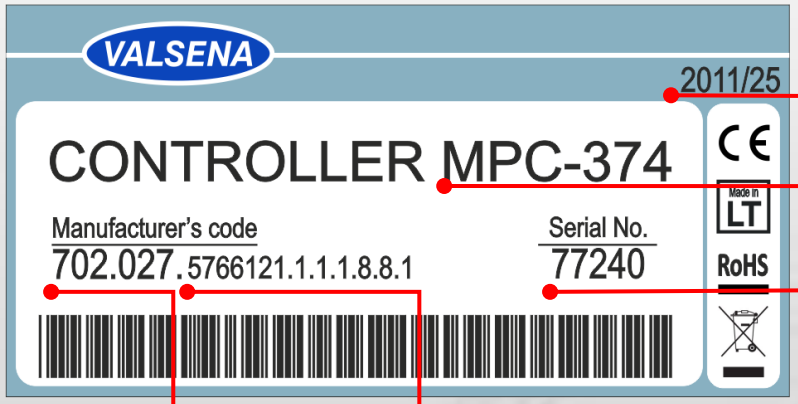
Over GPRS/GSM or Ethernet interfaces:

- Monitoring
- Alerting
- Routing
- Setting (configuring)
- Upgrading

Valsena Controllers

Nr.	Model	IN/OUT ports			Communication interfaces								System			Power supply		
		Wired				Wired						Wirelles						
		Analog (IN)	Discrete (IN)	Discrete (OUT)	Total interfacess	Mbus	Optronic (Data/Req)	Current loop	RS232	RS485	USB	Ethernet (twisted pair)	GSM / GPRS	Real time clock	Log file size (MB)	Distance programing	Power for ext. device	Battery charging	DC / AC _
1	AIM-8	8	-	-	3	-	-	-	1	1	1	1	-	+	1-8	+	-	-	9-36/_
2	MPC-143	3	4	-	4	1	1	-	3	2	-	-	+	+	1-8	+	-	+	9-36/_
3	MPC-134	4	16	8	5	1	1	-	3	3	-	-	+	+	1-8	+	-	-	9-36/_
4	MPC-123	2	4	-	2	-	1	-	1	-	-	-	+	+	-	-	-	+	12-30/_
5	MPC-040	-	-	-	4	1	-	1	3	1	-	-	-	+	0,032	-	-	-	10-30/
6	MPC-330	-	-	-	6	1	-	2	4	3	1	1	+	+	1-8	+	+	-	9-36/_
7	MPC-374	8	8	8	10	2	2	1	8	7	1	1	+	+	1-8	+	+	-	9-36/_
8	MPC-333	-	8	-	6	1	-	2	4	3	1	1	+	+	1-8	+	+	-	9-36/
9	DIN-32	-	32	-	4	-	-	-	2	1	1	1	-	+	1-8	+	-	-	9-36/

Top label



Manufacturing date (year and week)

Model name

Serial number

Configuration code

Model code

Multi Point Converters (MPC) model number

MPC-xyz

x		y		z	
Code	Mean	Code	Mean	Code	Mean
0	No remote interfaces	1	One interface	0	No Analog and Digital interfaces
1	GPRS	2	Two interfaces	1	Ananlog INPUT
2	Ethernet	3	Three interfaces	2	Discrete INPUT
3	GPRS+Ethernet	4	Four interfaces	3	Analog INPUT + Discrete INPUT
4	GPRS+WiFi	5	Five interfaces	4	Analog INPUT + Discrete INPUT + Discrete OUTPUT
5	Ethernet+WiFi	6	Six interfaces		
6	GPRS+Ethernet+WiFi	7	Seven interfaces	5	Discrete INPUT + Discrete OUTPUT
7	GPRS+WM-Bus	8	Eight interfaces		
8	Ethernet+WM-Bus	9	Nine interfaces		

For example MPC-374, means – GPRS + Ethernet & Seven serial interfaces & Analog INPUT + Discrete INPUT + Discrete OUTPUT

Configuration code

ABCDEFG.H.I.J.K.L.M.N

N
- 0 - none
- 1 - Real time clock installed

M
- 0 - none
- 8 - 8 disctrete outputs

L
- 0 - none
- 4 - 4 discrete inputs
- 8 - 8 disctrete inputs

K
- 0 - none
- 1 - 4 analog inputs with mutual point
- 2 - 8 analog inputs with mutual point
- 4 - 4 analog inputs with defferent points
- 8 - 8 analog inputs with defferent points

J
- 0 - none
- 1 - Power for external devices (on X13 socket)

I
- 0 - none
- 1 - Ethernet

. . . .

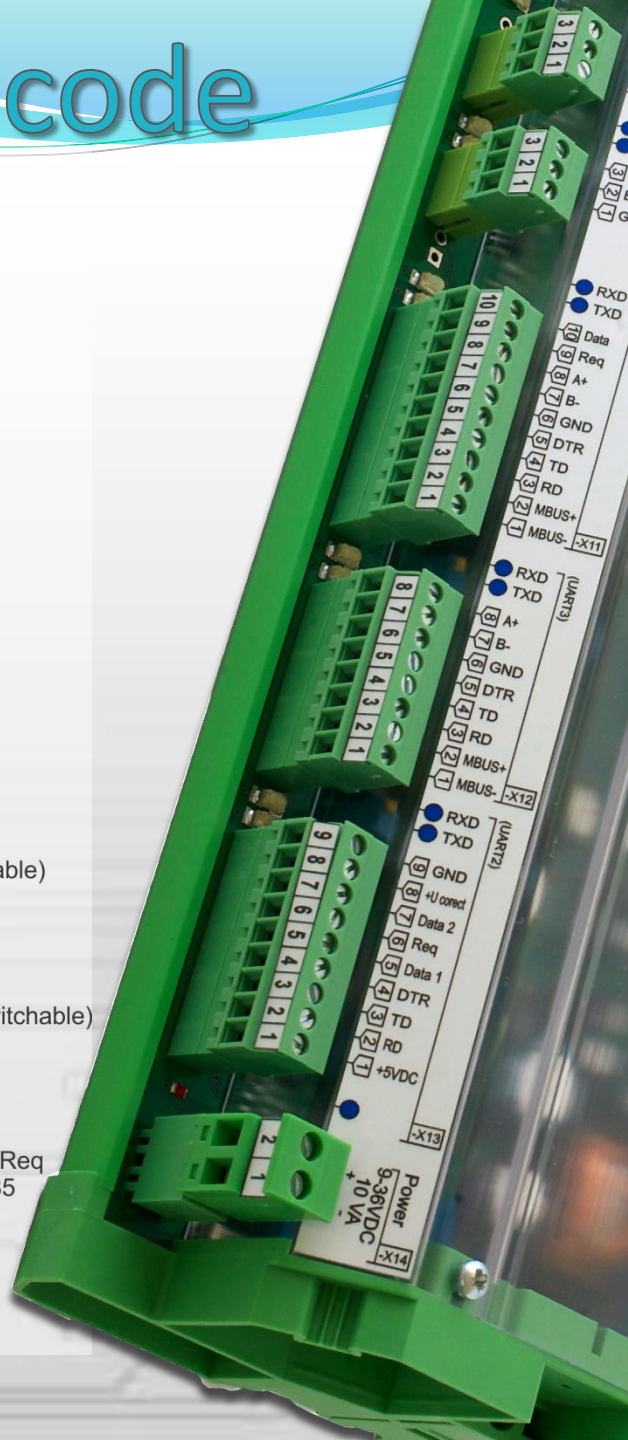
H
- 0 - none
- 1 - RS485
- 2 - RS232
- 3 - Data/Req
- 4 - M-Bus
- 6 - Universal[2] (jumper switchable)

G
- 0 - none
- 1 - RS485
- 2 - RS232
- 4 - M-Bus
- 6 - Universal[1] (jumper switchable)

F
- 0 - none
- 1 - RS485
- 2 - RS232
- 4 - Data/Req
- 6 - RS232 and Data/Req
- 7 - RS232 and RS485

E
- 0 - none
- 1 - RS485
- 2 - RS232
- 5 - Current loop

[1] - RS485, RS232, M-Bus
[2] - RS485, RS232, Data/Req, M-Bus



Exclusivities

1. Large amount of interfaces (up to 9);
2. Large selection of interfaces (RS232, M-Bus, CL, …).
3. Large number of supported protocols;
4. Configuration program is optimized to work with a slow communication links;
5. Flexibility of devices (free chosen interfaces, transparent mode, universal interfaces, power for ext. devices);
6. Optimized for long term work without power;
7. Routing and remote operating;
8. Controller sends SMS alerts (no need of PC);
9. Reliability and stability.

The end !

www.valsena.lt