



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

## DK-2



### Main features:

- Freely chosen interfaces: up to 2 interfaces.
- Supported interfaces: RS232, Opto (Kamstrup), GSM/GPRS.
- Support for external GSM modem: you can choose between internal and external GSM/GPRS modem.
- 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, SMTP, IEC60870-5-104-200, skaidus.
- Amount of data archive memory: 32kB.
- Power supply: 12-30 VDC (19V).

<b>First interface</b>		
RS232		distance up to 15m, speed up to 19,2Kbit/s
<b>Second interface</b>		
RS232		distance up to 15m, speed up to 19,2Kbit/s
Opto		(Kamstrup) data transfer interface
<b>Third interface</b>		
GSM/GPRS		3 band 900/1800/1900 MHz
<b>Discrete and Analog interfaces</b>		
Discrete IN	4	sink contact
Analogi IN	2	current, reading 10 times per second
<b>Protocols</b>		
		Modbus RTU Modbus TCP/IP IP ICMP UDP TCP DHCP PPP ARP SMTP IEC60870-5-104:2000
<b>General</b>		
Power		12-30 VDC
Galvanic isolation		>1000V
Capacity		<5VA
<b>Regulatory approvals</b>		
Electromagnetic compatibility		LST EN 61000-4-5:2002+A1:2003 LST EN 55022:2000+A1+AC:2002+A2:2003

	LST EN 55024:2000+A1:2003+A2:2003 LST EN 61000-4-2+A1+A2:2002 LST EN 61000-4-3+A1:2004 LST EN 61000-4-4:2005 LST EN 61000-4-5:2002+A1:2003 LST EN 61000-4-6:2002+A1:2003
Safety	LST EN 60950-1:2006 LST EN 60950-1:2006/A11:2009
<b>Specification</b>	
CPU	C8051F345
<b>LED indication</b>	
Power	+
Serial ports read/write for each port	+
<b>Physical characteristics</b>	
Dimensions	120x101x35 mm
Weight	170 g
Mounting type	on DIN32 rail
Safety class	IP20
<b>Climate conditions</b>	
Operating temperature	-25..+60 °C
Storage temperature	-40..+60 °C
<b>Other features</b>	
24 months warranty period	+

## OVERVIEW

DK-2 designed for data reading from energy carrier meters and real time remote transfer. Using GSM/GPRS modem data can be reached from all over the world.

Controller support RS232 and Opto interfaces, Discrete and Analog input channels and wide range of protocols (TCP/IP, Modbus RTU, Modbus TCP/IP, ...). Can be used for data reading from different manufacturers meters.

## 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.