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MPC-374



- Two Universal (jumper switchable) interfaces
- Discrete inputs: up to 12 devices
- Analog inputs: up to 8 devices
- memory expansion: up to 868 using micros SD card

 Supported protocols: Modbus RTU, Modbus TCP/IP, IP, ICMP, UDP, TCP, DHCP, PPP, ARP, SNTP, IEC60870-5-104-200 and transparent, DynDNS, DNS(client), FTP(server & client).

 Routing: GSM Ethernet rounting
- Special: transparent non-standart protocol data transfer
- Power: 9-36 VDC (10VA)
- Power for external devices: 3,7; 5; 6; 8 or 10 VDC (20mA)

First 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				
2 wire active Current Loop	25-27V, 14-20mA, up to 6km, speed up to 19,2Kbit/s				
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				
Power for exteranl devices	3,7/5/6/8/10 V				
Third 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				
MBus	up to 8 devices				
Universal	jumper switchable				
Fourth 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				
Universal	jumper switchable				
Fifth 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				
Sixth 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						
Seventh interface							
RS485	distance up to 1,2km, max 32 transivers, speed up to 19.2 Kbits/s						
Eighth interface							
RS485	distance up to 1,2km, max 32 transivers, speed up to 19.2 Kbits/s						
GSM/GPRS	4 band 850/900/1800/1900 MHz						
Ninth interface	•						
twisted pair, 10/100 Mbps, distance up to 100m							
Discrete and Analog interfaces	I.						
Discrete IN	12 sink contact						
Discrete OUT	8	open collector, >50VDC and >500mA					
Analogi IN	8	current 0/4-20mA or 0-5mA, error 0,15%					
Protocols	<u> </u>						
Trotocois	Modbus RTU						
	Modbus TCP/IP IP ICMP UDP TCP DHCP PPP ARP SNTP IEC60870-5-104:2000 DynDNS FTP server FTP client						
General	DNS client						
Power	9-36 VDC						
Galvanic isolation	>1000V						
Capacity	300 mA max						
Power for external devices	3,7/5/6/8/10 VDC (20mA)						
Regulatory approvals	I						
Electromagnetic compatibility	EN 61000-4-5:2002+A1:2003 EN 55022:2000+A1+AC:2002+A2:2003 EN 55024:2000+A1:2003+A2:2003 EN 61000-4-2+A1+A2:2002 EN 61000-4-3+A1:2004 EN 61000-4-6:2002 EN 61000-4-5:2002+A1:2003 EN 61000-4-6:2002+A1:2003						
Safety	EN 61010-1:2002						
Specification							
СРИ	ARM7						
SD card support	micro SD card up to 8GB						
Memory	archive storage 1-8 MB, independant data storage with	out 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	+						
Ethernet status	+						
Programing and updating	ı						
Remote	GSM/GPRS, Ethernet (RJ45)						
Locally	USB, RS232, RS485						
Physical characteristics	<u> </u>						
Dimmensions	277x128x50 mm						
Weight	600 g						
Mounting type	on DIN32 rail						
Safety class	IP20						
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Climate conditions							
Operating temperature	-25+60 °C						
Storage temperature	-40+60 °C						
Humidity range	5-95%, non-condensing						
Other fuetures Control of the contro							
Real time clock	+						
MBus auto setup	+						
24 months warranty period	+						
Number of supported interfaces	9						
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						
Current Loop	+ Active or Pasive, 2 or 4 wire						
Ethernet	+ twisted pair, 10/100 Mbps, distance up to 100r						
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-374 controller is created for data logging and analyzing in a real time. Using GPRS/GSM and/or Ethernet, controller sends saved data and reports to remote users.

Controller supports most of protocols and interfaces (RS232, RS485, MBUS, Opto, Current loop, Discrete inputs), so it can be used with different brands and models of counters. 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, Ethernet 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.

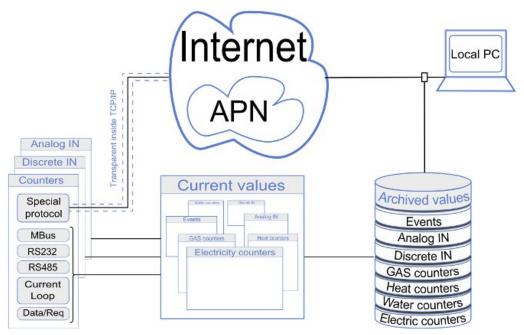
DEFAULT FEATURES

- Reading data from energy carrier meters;
- "TRANSPARENT" remote data reading from counters (special manufacturers protocols);
- Discrete input/output ports;
- Independent data log (up to 8MB) with real time stamp;
- Remote configuration and upgrading possibilities over GPRS/GSM and Ethernet;
- Wide range of interfaces: GSM/GPRS, Ethernet, RS232, RS485, Current Loop, USB, Opto, Mbus;
- Galvanically isolated interfaces and power supply;
- Power supply for external powering of counters.

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

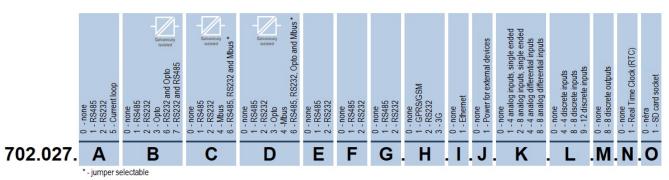
The exceptional feature of this device - a flexible hardware and software configuration, it depends on customer needs, you can choose the desired interface and functionality.

Interface	RS232	RS485	Opto	MBUS	Current loop	Ethernet	GSM (GPRS)	Power for ext. dev.	Jumper selectable
Α	0	0			0				
В	0*	0*	0*					(+0)	0
С	0*	0*		0*					0
D	0*	0*	0*	0*					0
E	0	0							
F	0	0							
G	0								
Н	0						0		
I			2			0			

O-optional one interface per socket; *-galvanically isolated; (+O)-you can chose this interface additionally

Discrete IN 8 Discrete OUT 8 Analog IN 8

Manufacturers code:



702.027.1243200.1.1.0.4.8.8.1.0 - (RS485, RS232, Mbus, Opto, RS232, GPRS, Ethernet, 4 Analog_IN, 8 Discrete_IN, 8 Discrete_OUT, RTC)

For routing

in complex projects of data collection and processing

