

INTERFACES

RS232

RS485

Ethernet

USB

8 x Analog IN



FEATURES

- Independent data log with real time stamp (Real Time Clock)
- Supported interfaces: Ethernet, RS232, RS485, Analog IN, USB
- Up to 8 analog input ports (support current, voltage and resistance analog inputs)
- Remote communication over Ethernet (RJ45, 10/100Mbps)
- Modbus RTU, Modbus TCP/IP, IEC60870-5-104:2000, DynDNS, FTP server/client, DNS client and other protocols
- Galvanically isolated interfaces and power supply

RAY-8 data logger is designed for data logging and analyzing of analog signals in a real time. Data logger supports RS232, RS485, Ethernet, USB interfaces and up to 8 analog inputs channels (current, voltage and resistance inputs) and can be used as standalone device or as extension module. It can be connected to any of our data loggers like MX-7 or MX-5.

For data exchange over Ethernet or any serial RS232/ RS485 interfaces, controller uses Modbus TCP/IP, Modbus RTU and other protocols.

ORDERING CODE

RAY-8.	A.	B.	C.	D.	E.	F.	G.	H.	I.	J.	K.	L.
0 – None 1 – RS485 2 – RS232												
0 – None 1 – Ethernet												
0 – None 1 – USB												
0 – None 1 – Real Time Clock (RTC)												
0 – None 1 – Current analog input 2 – Voltage -5...+5V analog input 3 – Voltage -10...+10V analog input 4 – Thermoresistor (Pt100) analog IN 5 – Thermoresistor (Pt1000) analog IN 6 – Resistance 0...30kΩ analog IN												

Example: RAY-8.2.1.1.1.1.12000000 (RS232, Ethernet, USB, RTC, Current analog IN, Voltage -5...+5V analog IN)

TECHNICAL SPECIFICATIONS

Description	RAY-8 data logger
CPU	ARM7
Flash	archive storage up to 8 MB, independent data storage without power about 5 years
Interfaces	
RS485	distance up to 1,2 km, max 32 transivers, speed up to 19,2 Kbits/s
RS232	distance up to 15 m, speed up to 19,2 Kbit/s
Ethernet	10/100 Mbps, RJ45, distance up to 100 m
USB	type B, ver. 2,0
Analog IN	8 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 supply	9-36 VDC
Galvanic isolation	>1000V
Capacity	200mA max
Certifications	
Electromagnetic compatibility	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
Safety	EN 61000-4-6:2009
	EN 60950-1:2006+A1:2010+A11:2009+A12:2011
Physical characteristics	
Dimensions	120x101x35 mm
Weight	170 g
Mounting type	on DIN rail
Protection type	IP20
Climate conditions	
Operating temperature	-25 to +60°C
Storage temperature	-40 to +60°C
Humidity range	5 – 95%, non-condensing
LED indication	
Power	
Serial ports read/write for each port	
Ethernet status	
Other features	
Real time clock	
Warranty period	2 years