

MX-9 Wireless M-Bus Data Logger 433MHz/868MHz

INTERFACES

RS232 RS485 M-Bus

Wireless M-Bus

Data/Req

TO

Current Loop

Ethernet

GSM/GPRS

USB

Application







monitoring

Water/Heat metering

Electricity metering



Sensors monitoring



 ELECTRONICS
 CE

 Durdecture's code: MK-9.14224.1.1.1

 Series MK-8.14224.1.1.1

 Series MK-8.14224.1.1.1

 Series MK-8.14224.1.1.1

 Series MK-8.14224.1.1.1

M-Bus Modbus OMS (E

FEATURES

>

 \triangleright

- Reading data from meters (heat, water, gas, electricity...), sensors and controllers
- Supported interfaces: M-Bus, RS232, RS485, Current Loop, Data/Req, USB, Ethernet, GSM/GPRS
- Wireless M-Bus supports:
- ✓ S, T, R, C modes (433MHz/868MHz)
- OMS (Open metering system)
- ✓ up to 300 Wireless M-Bus devices
- Remote communication over GSM/GPRS or Ethernet (RJ45)
- Galvanically isolated interfaces and power supply
- Power for external devices: 3,7; 5; 6; 8 or 10 VDC (20mA)
- Memory expansion: up to 8 GB using micro SD card

MX-9 data logger is dedicated for collecting the data via Wireless M-Bus and real time logging, analyzing of data. Using GPRS/GSM or Ethernet, logger sends data to remote users / server. MX-9 can also communicate with other controllers and sensors. Device has wide range of optional interfaces and protocols and can read any kind of meters, controllers and sensors equipped with standard protocols. Perfect for telemetry/monitoring, control and smart metering.



TECHNICAL SPECIFICATIONS

Description	MX-9 data logger					
CPU	ARM7					
Flash	archive storage up to 8 MB, independent data storage without power about 5 years					
External memory	up to 8 GB micro SD card					
Interfaces						
RS232 (4 ports)	distance up to 15 m, speed up to 19,2 Kbit/s					
RS485 (3 ports)	distance up to 1,2 km, max 32 transivers, speed up to 19,2 Kbits/s					
M-Bus (2 ports)	up to 16 M-Bus devices (up to 8 M-Bus devices for each M-Bus port)					
Wireless M-Bus (1 port)	up to 300 Wireless M-Bus (T, S, R, C modes, 433MHz/868MHz) devices					
Data/Req (2 ports)	(KAMSTRUP) data transfer interface					
Current Loop (2 ports)	25-27V, 14-20mA, up to 6 km, speed up to 19,2 Kbit/s					
GSM/GPRS	4 band 850/900/1800/1900 MHz					
Ethernet	10/100 Mbps, RJ45, distance up to 100 m					
USB	ver. 2,0, type B					
Protocols						
	P, 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					
Over-voltage protection	>1000V					
Capacity	300mA max					
Power for external devices	3,7/5/6/8/10 V (<20mA)					
Interface galvanic isolation	500V					
Physical characteristics						
Dimensions	147x128x50 mm					
Weight	400 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					
Programing and updating						
Remote	GSM/GPRS or Ethernet (RJ45)					
Locally	RS232, RS485 or USB					
LED indication						
Power						
Serial ports read/write for ea	ach port					
GSM/GPRS modem status						
Ethernet status						
Other features						
Real time clock	+					
M-Bus auto setup	+					
Warranty period	2 years					

ORDERING CODE

MX-9.	Α	В	С	D	Ε.	F.	G.	Н
0 – None 1 – GPRS/GSM 2 – RS232								
0 – None 1 – RS485 2 – RS232 3 – Data/Req (Opto) 4 – M-Bus 5 – Current loop								
0 – None 1 – RS485 2 – RS232 3 – Data/Req (Opto) 4 – M-Bus 5 – Current loop 6 – CAN] 							
0 – None 1 – RS485 2 – RS232								
0 – None 4 – Wireless M-Bus (868 M 5 – Wireless M-Bus (433 M								
0 – None 1 – Ethernet								
0 – None 1 – SD card socket								
0 – None 1 – Power for external de	vices							

Example: MX-9.1000.4.0.1.0 (GPRS, Wireless M-Bus (868 MHz), Micro SD card)







