

Controller MPC-140 (Code 702.051)

TECHNICAL PASSPORT



Device purpose

- read data from energy carrier meters (electricity, heat, water, GAS, various sensors);
- to store accounting data;
- an initial analysis of data;

Device delivery set

- Controller MPC-140 1pc.
- Set of connectors (depending on the configuration) 1 set
- Technical passport 1 pc.
- Software 1 pc.

Technical data

Overall specification

<i>CPU:</i>	Cortex M4
<i>Flash:</i>	archive storage 1-8 MB, valid up to 5 years.
<i>SDRAM:</i>	8MB for 1000 Wmbus meters 32MB for 2000 Wmbus meters
<i>External memory:</i>	up to 8GB micro SD
<i>2G:</i>	Quad-Band 850/900/1800/1900 MHz
<i>3G:</i>	Dual-Band WCDMA/HSPA 900/2100MHz Dual-Band GSM/GPRS/EDGE 900/1800MHz

Interfaces

<i>RS485:</i>	up to 1.2 km, max 32 transivers, speed up to 19.2 Kbits/s
<i>WM-bus:</i>	up to 2000 devices depending on market (868 MHz or 433 MHz or 169 MHz)
<i>USB:</i>	ver. 2.0, type A

LED indication

Power
Serial port read/write for each port
WM-bus status
GSM/GPRS modem status

Protocols

Modbus RTU, Modbus TCP/IP, IP, SFTP, ICMP, UDP, TCP, DHCP, PPP, SNTP, IEC60870-5-104:2000

General

<i>Power supply:</i>	9-36V DC(10VA)
<i>Power consumption :</i>	<10VA
<i>Real-time clock:</i>	YES

Physical characteristics

<i>Dimensions:</i>	77x128x50 mm
<i>Weight:</i>	150 g
<i>Case fixing type:</i>	DIN35
<i>Protection type:</i>	IP20

Climate conditions

<i>Operating temperature:</i>	-25 .. +60°C
<i>Storage temperature:</i>	-40 .. +60°C
<i>Humidity range:</i>	5 – 95%, non-condensing

Programming and updating

<i>Remotely:</i>	GPRS
<i>Locally:</i>	RS485 or USB

Socket No.	GSM GPRS	Wireless Mbus	RS485	Extended memory	Micro SD card	LoRA
A	○					
B		○				
C						TBD
D			○			
E				○		
F					○	

○-optional one interface per socket; TBD - To Be Determined. A detail has not been decided yet, but will be determined in the future.

Model code explanation

	0 - none 1 - GPRS/GSM 3 - 3G modem	0 - none 1 - Wmbus 868 MHz 2 - Wmbus 433 MHz 3 - Wmbus 169 MHz	0 - none 1 - LoRA (not available yet)	0 - none 1 - RS485	0 - none 1 - SDRAM 8MB* 2 - SDRAM 32MB**	0 - none 1 - SD card socket
702.051.	A	B	C	D	E	F

*- Operating up to 1000 wireless mbus meters, Micro SD card is necessary.

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Manufacturer warranty

Warranty period – 24 month.

In case of controller’s unavailability, the manufacturer commits to replace or carry out repair free of charges, if device was used in accordance with the operating manual.

A guarantee does not apply to faults caused by force majeure.

Putting into operation certificate

Controller MPC-140

Model code: 702.051.1.1.0.1.0.1

Manufacturer’s number:

Date of manufacturing: February 2021

S.P.

