







LogicMachine5 Power (LM5p2-DW1, LM5Cp2-DW1)

LogicMachine (LM) is your easiest way to program complex logic in KNX/EIB, Modbus, BACnet, DALI, 1-wire networks. LM will enable you to efficiently customize building automation processes, easily delivering unlimited flexibility benefit to end users in a cost-effective way.

LM5 Power is an embedded platform integrated Ethernet, USB, KNX/EIB, DALI, 1-wire. Serial interfaces. LM allows to use it as cross-standard gateway, logic engine, visualization platform, IP Router. Scripting templates provides user-friendly, flexible configuration interface integration and with services, 3rd cloud/web party devices. Via applying custom scripts LM can simultaneously act as thermostat, security panel, lighting



controller, etc. LogicMachine application store and external app development possibility allows to extend device functionality and adjust to a specific market segment

LM5 Power has Power-over-Ethernet support. Further, LM5 Power is 3x more powerful than all previous LogicMachine versions due to more powerful CPU and RAM.

ENG - Data sheet

Issue date 26.11.2021

Application

- Logical functions
- WEB SCADA visualization for PC and touch-devices
- cross-standard gateway
- integration with third party devices over USB, RS485 serial port, Ethernet AV, IR, HVAC
- Data logger with trends
- **KNX IP Router**
- Presence monitoring
- Lighting regulation
- Universal controller (lighting, shutter etc.)
- Health/activity monitoring
- Internet-of-Things
- Cloud server/client





































ZigBee*

Bluetooth*

4.8



























Types of product

LogiMachine5 Power CANx LM5p-DW1 LM5Cp-DW1

Standards and norms compliance

EMC: EN61000-6-1

EN61000-6-3

PCT Certificate

Technical data:

Power supply: 12V-30V DC on terminal connectors or

12V-30V DC Passive Power-over-Ethernet

Power consummation: 1.3W

Interface: KNX/EIB TP1 or CAN FT 1

(switchable in software – full-duplex=RS232, half-duplex=RS485)

DALI master 2 (up to DALI 128 ballasts in

total)

1-wire 2

Connections: KNX bus / CAN FT Bus Connection Terminal

0.8mm2

Power supply Screw, 1.5 mm2
Serial Screw, 1 mm2
DALI Screw, 1 mm2
1-wire Screw, 1 mm2

Operating elements LED 1 – CPU load

1 - Activity

Enclosure: Material: Polyamide

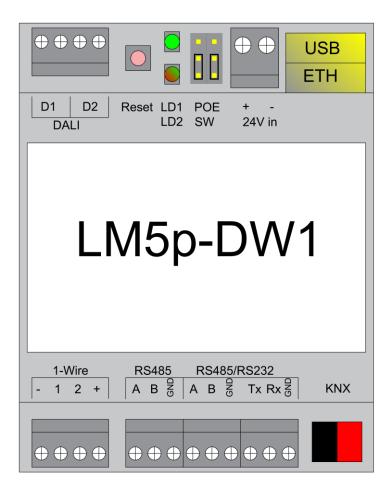
Color: Gray

Dimensions: 71(W)x90(H)x61(L) mm

Usage temperature: 0C ... +45C Storage temperature: -15C ... +55C

Net Weight: 119g
Gross Weight: 137g
Warranty: 2 years

Relative Humidity: 10...95 % without condensation





The installation and assembly of electrical equipment may only be performed by skilled electrician. The devices must not be used in any relation with equipment that supports, directly or indirectly, human health or life or with application that can result danger of people, animals or real value

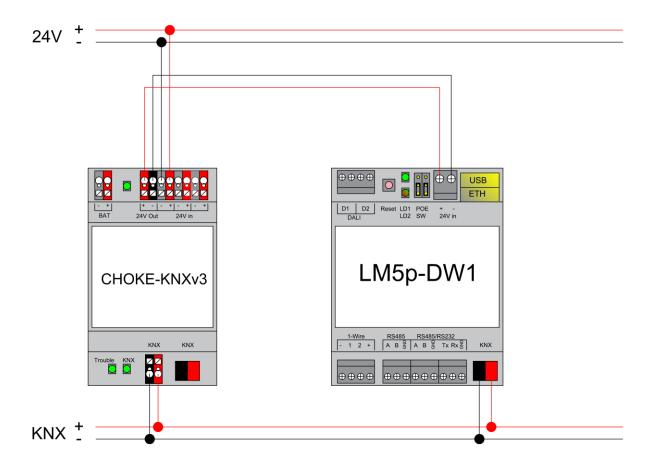
Mounting advice

The devices are supplied in operational status. The cables connections included can be clamped to the housing if required.

Electrical connection

The devices are constructed for the operation of protective low voltage (SELV). Grounding of device is not needed. When switching the power supply on or off, power surges must be avoided.

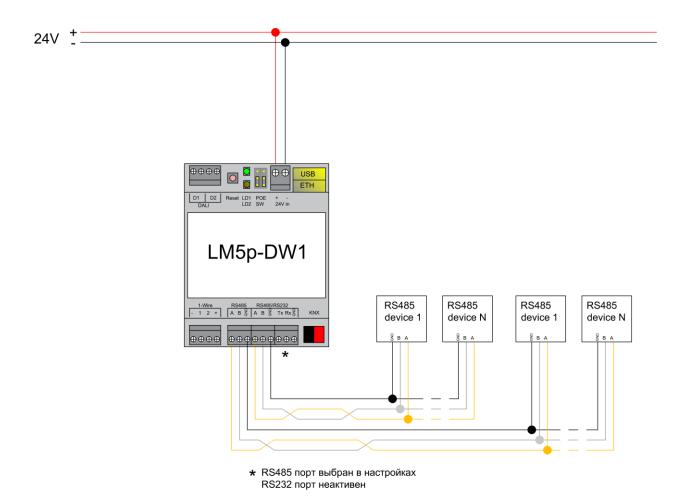
KNX connection



RS-485 connection

There can be used max two RS-485 on LM5p Power. First one is definitive, second one is software switchable – either it works as RS-485 or as RS-232 :

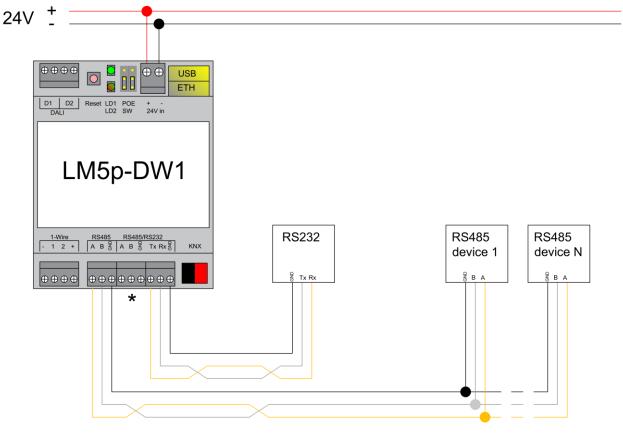
- If it is set up as full-duplex it will operate as RS-232 and respective TX/RX/GND screw terminals should be used
- If it is set up as half-duplex (*) it will operate as RS-485 and respective A/B/GND screw terminals should be used



*RS-485 is chosen in this case, RS-232 is not activated
LM5Cp2-DW1, LM5p2-DW1

RS-232 connection

If second serial port is set as full-duplex in LogicMachine configuration, it will operate as RS-232 and respective TX/RX/GND screw terminals should be used.



★ RS232 порт выбран в настройках RS485 порт неактивен

^{*}RS-232 is chosen in this case, RS-485 is not activated

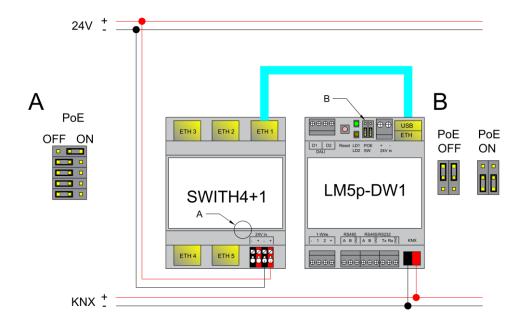
Powering

LM5 supports two powering modes:



- regular powering over screw terminals (Jumpers up or down)
- passive PoE powering over 24V DC (Jumpers down)
- when using active PoE 48V, jumpers have to be UP or the product will be damaged!

Please note that there are two PoE types of PoE switches/adapters – passive and active (802.3af). In passive mode 4 Ethernet cable wires are used for data and 4 are used for power. In active PoE mode data and power goes together.



Passive PoE switch

Passive PoE adapters

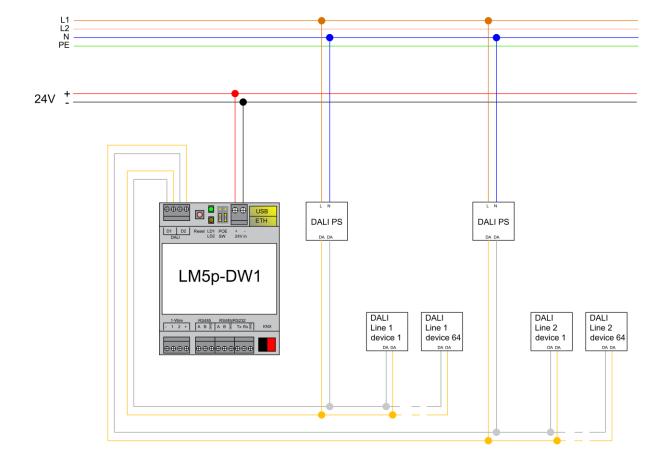






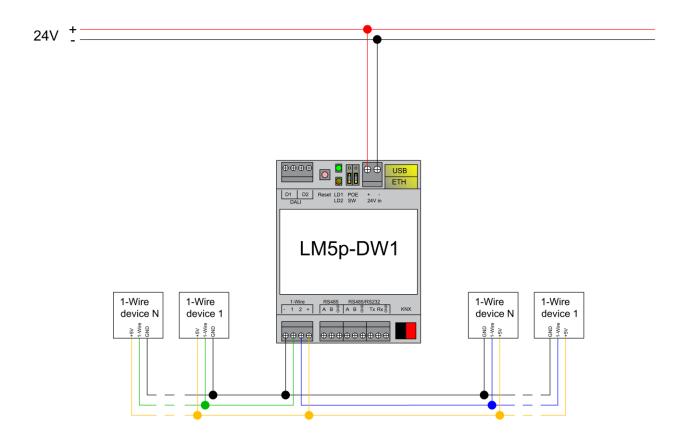
DALI connection

There are two DALI master interfaces in this device. You can connect up to 64 DALI ballasts to each master interface.



1-wire connection

There are two 1-wire interfaces in this device.



Quick startup guide

- 1) Mounting the device on DIN rail
- 2) Connect the KNX bus cable
- 3) Connect 24V power supply to the device (either through separate 24V screw terminals or through Passive 24V DC Power-Over-Ethernet)
- 4) Connect Ethernet/LAN cable coming from the PC

Default IP configuration

Login name	admin
Password	admin
IP address	192.168.0.10
Network mask	255.255.255.0

Reset device

You can either reboot the device by pressing RESET button or reset the configuration to factory defaults:

- Press and hold for <10 sec reboot the device
- Press and hold for >10 sec reset networking with IP to factory default
- Press and hold for >10 sec and again press and hold for >10 sec full reset of configuration to factory defaults