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LogicMachine5

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.

LM is an embedded platform with integrated Ethernet, USB, DALI, 1-Wire, KNX/EIB, 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. Via applying custom scripts LM can simultaneously act as thermostat, security panel, lighting controller, etc.

In comparison with former LM versions, LM5 has built-in configurable termination resistors for RS-485 ports, 24V DC output with voltage and current monitoring possibility and Power-over-Ethernet support. Further, LM5 is 3x more powerful than all previous LogicMachine versions due to more powerful CPU and RAM.

ENG - Data sheet
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Application

Logical functions; WEB SCADA visualization for PC and touch-devices; cross-standard gateway; integration with third party devices over USB and RS485 serial port – AV, IR, HVAC; Data logger with trends, KNX IP Router etc.

Types of product

LogiMachine5	LM5

Standards and norms compliance

EMC:	EN61000-6-1 EN61000-6-3
PCT	Certificate

Technical data:

Power supply:	24V DC on terminal connectors or 24V DC Power-over-Ethernet	
Power consummation:	1.3W	
Interface:	KNX/EIB TP1	1
	10BaseT/100BaseTX	1
	RS-485 with termination resistors	2
	USB2.0	1
	DALI	1
	1-Wire	1
	24V OUT for voltage and current measurement, max 1 A	
Connections:	KNX bus:	Bus Connection Terminal 0.8mm2
	Power supply:	Screw, 1.5mm2
	Serial:	Screw, 1.5mm2
	DALI:	Screw, 1.5mm2
	1-Wire:	Screw, 1.5mm2
Operating elements	LED	1 – CPU load 1 - Activity
Enclosure:	Material:	Polyamide
	Color:	Gray
	Dimensions:	70(W)x90(H)x61(L) mm

Usage temperature:	0C ... +45C
Storage temperature:	-15C ... +55C
Weight:	150g
Warranty:	2 years
Relative Humidity:	10...95 % without condensation

Caution
Security advice

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.

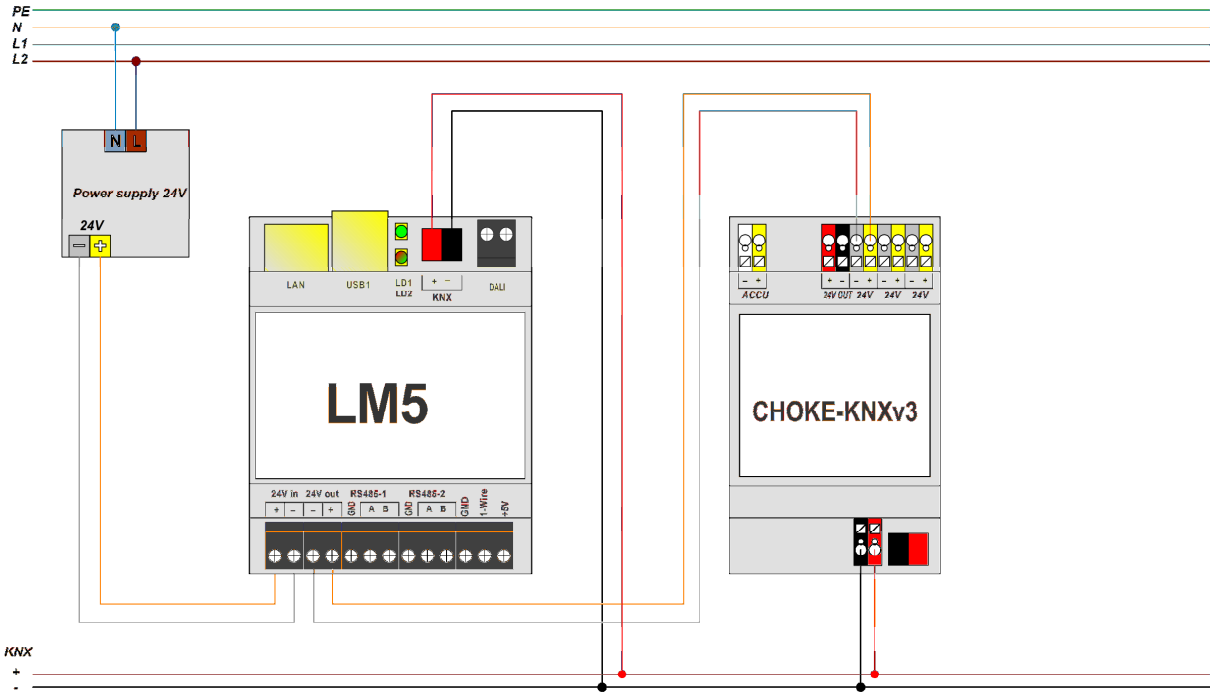
Electrical connection

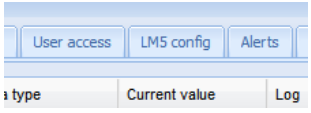
The devices are constructed for the operation of protective low voltage (SELV). Grounding of device is not needed. When switching the power supply on or off, power surges must be avoided.

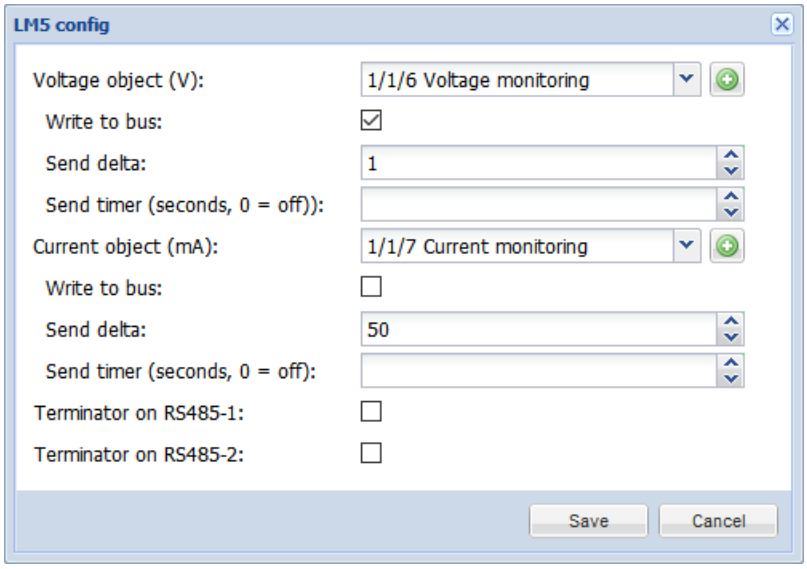
Terminal connection schemes

KNX Choke interconnection with LM5

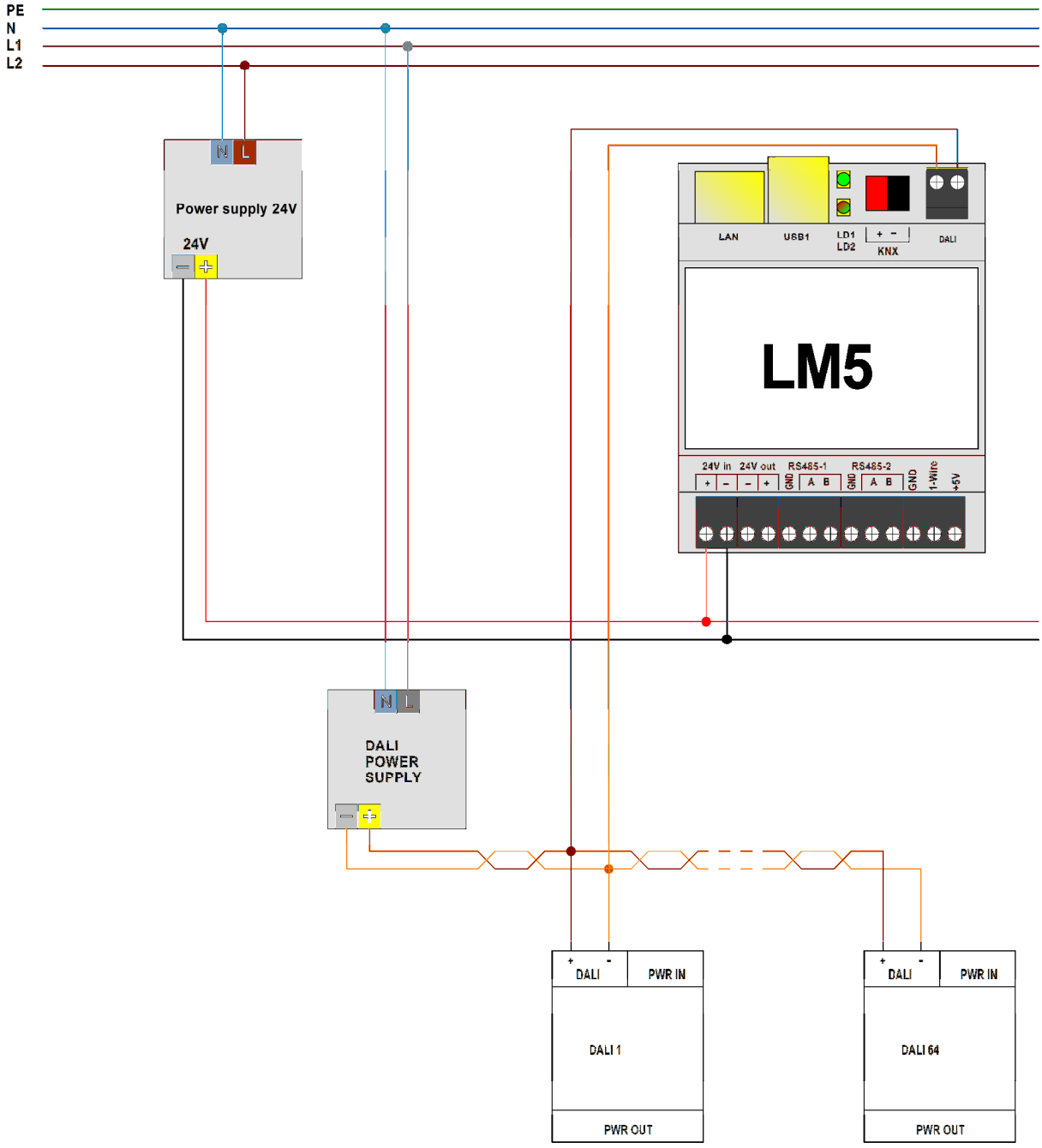
This setup allows to monitor voltage and current usage of KNX fieldbus.



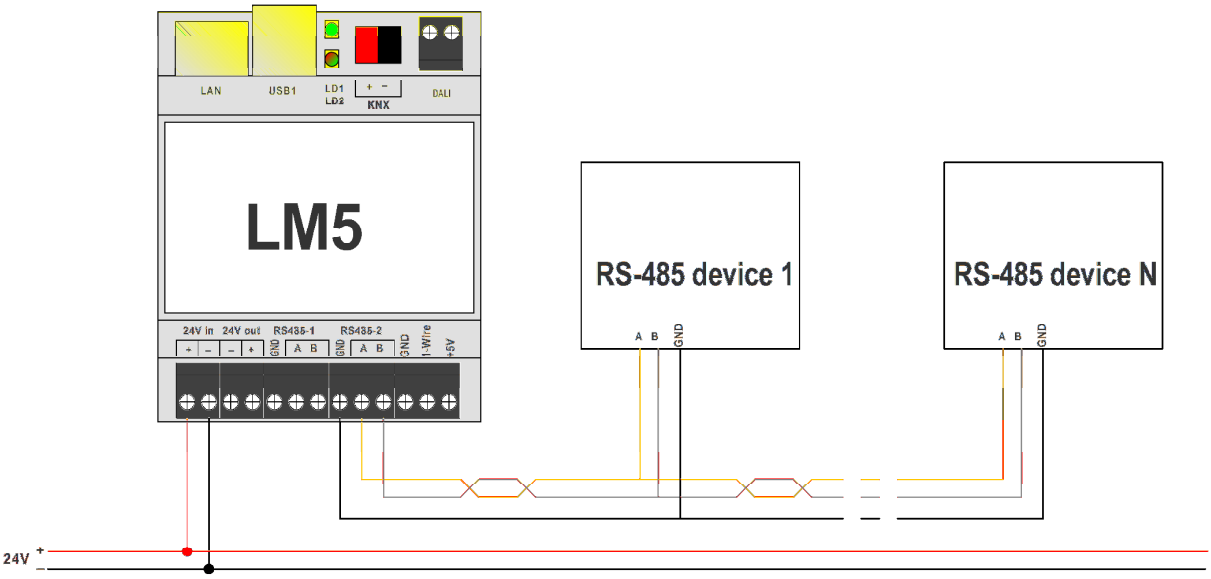




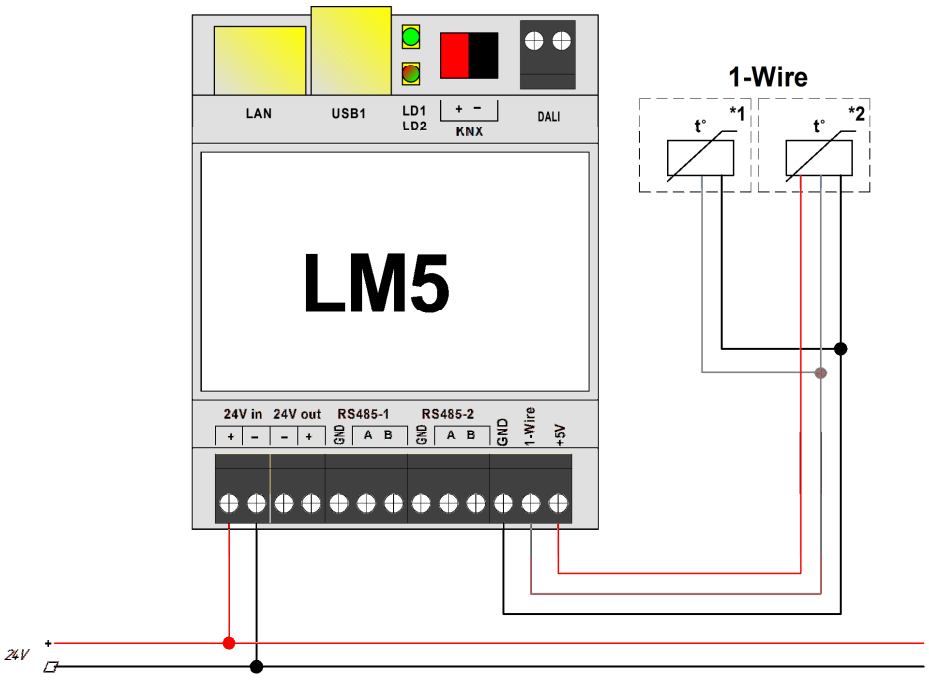
DALI connection



RS-485 connection

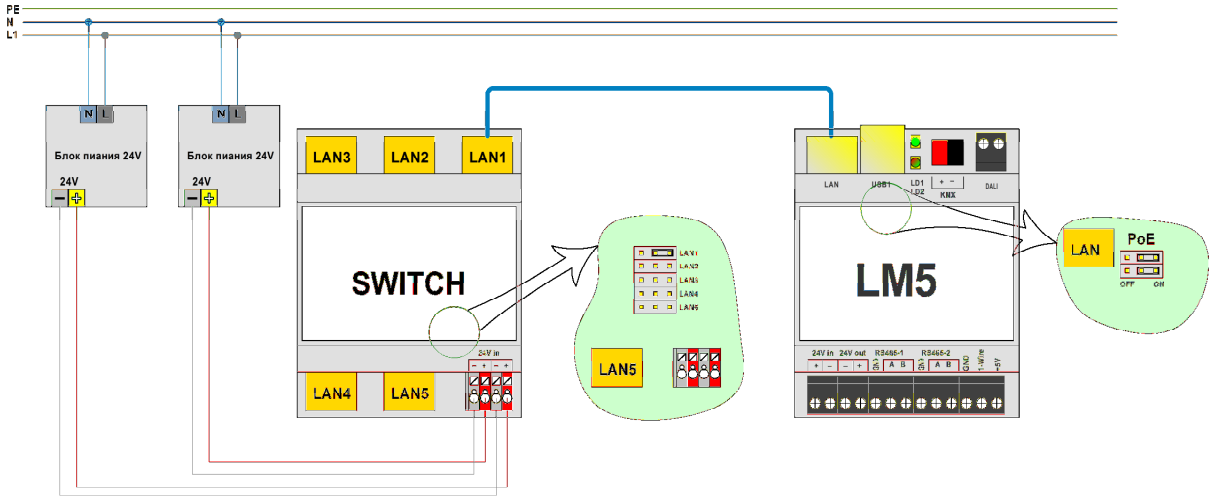


1-wire connection



Power over Ethernet

To use passive PoE powering over 24V DC, you have to make sure both jumpers are set to the right position as shown in the picture below (they are by default set to this mode). You need to open the device enclosure to change jumper settings. Please note that in PoE jumper mode the device can be powered both over PoE as well as regular 24V screw terminals.



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 crew 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