

MX-VS100

Visualization Module



Overview

MX-VS100 is a dedicated device on which the MICROAXS visualization system is installed. The product is designed for installation on a DIN rail and occupies 4 modules. The 5 Vdc power supply is external (power supply not included in the supply). The product with hardware based on an embedded operating system, has a KNX node and can therefore be connected directly to the bus network of KNX devices. It is also equipped with two RS485 ports for connecting slave-type Modbus RTU devices and an external USB port. External connectivity is achieved through the Ethernet port that connects the device directly to the router. The integrated web-server allows access to the device administration panel while configuration and commissioning are carried out through the use of the dedicated MICROAXS configuration software for fixed devices. The visualization environment, accessible with the dedicated MICROAXS app for smart phone and tablet mobile devices (iOS and Android) and for fixed devices (PC and Mac), can be fully customized according to one's taste, both in the graphic and organizational aspect of the intelligent system control interface.

Features

- 5 Vdc power supply by means of a special plug-in terminal supplied. Power supply not included.
- KNX bus (twisted pair) via red-black terminal provided
- 1 Ethernet port via cat. 5 or higher cable and standard RJ45 connector
- 2 RS485 ports for integration of Modbus RTU slave devices
- 1 USB 2.0 Type A port
- 9 frontal LEDs: POWER LED to signal the presence of power supply; SERVICE led to signal reception / transmission operations in progress for KNX bus, RS485 bus, Z-Wave



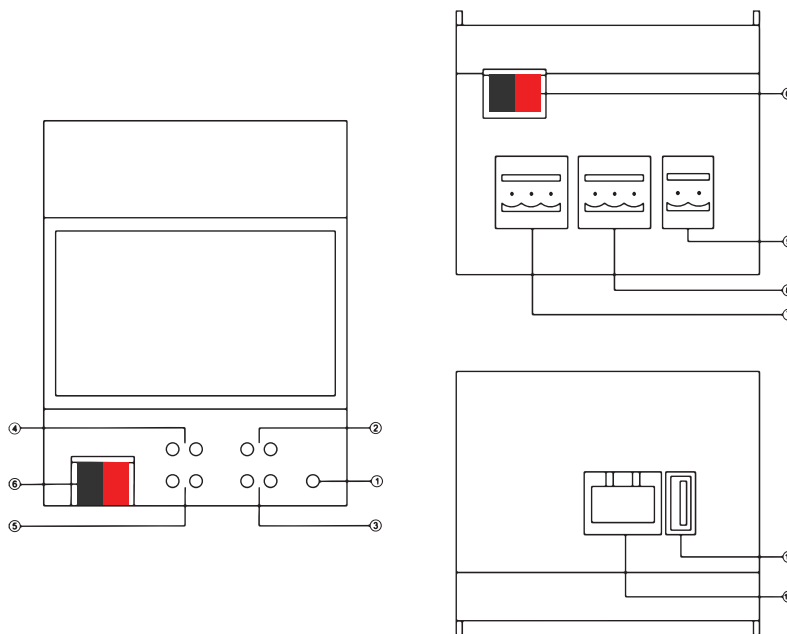
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Specification

Model	MX-VS100
Mounting	35 mm
Degree of protection	IP20 with product installed (according to EN 60529)
Insulation	Class II
Climatic classification	3K5 (indoor, dry) and mechanical 3M2
Operating temperature	0°C~+40°C
Storage temperature	-25°C~55°C
Relative humidity	95% Non-condensing
Weight	150 g
Dimensions	72 x 90 x 63 mm (W x H x D)

Diagram



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Integration of Home Automation Systems

MICROAXS allows you to control the lights (brightness, RGB regulation, switching on and off), the opening and closing of the motors (shutters, blinds, curtains, and windows actuators), the management and control of heating and cooling, as well as the management and control of scenes. The scenes are combinations of commands and adjustments of the integrated systems that can be activated graphically or through schedules that the user can also create with complete autonomy, without having to ask for intervention from the technician.

Supported Systems



Worldwide Standard
for the automation



Worldwide Standard
for the automation



Worldwide Standard
for the automation



Proprietary System
of Vimar S.p.A.



Proprietary System
of BTicino/Legrand



Worldwide Standard
for the automation



Worldwide Standard
for the automation



Worldwide Standard for
Internet of Things (IOT)



Proprietary System
of Allterco Robotics



Proprietary System
of Philips (lighting)

Integration of Heating, Ventilation and Air Conditioning Systems

MICROAXS allows the user to manage and control the heating, cooling, and relative humidity of the rooms, and the air quality of their home. You can control and manage the temperature and relative humidity parameters, and create integrated scenarios with other customizable functions for activating, regulating, and switching off the system. MICROAXS offers a standard graphic component (widget) to meet the integration needs of room thermostats and of the most widespread HVAC systems, but it also allows you to independently design the component graphics (custom widget) to control the functions made available by the HVAC system.

Supported Systems



INTESIS WIFI interfaces
for HVAC integration



COOLMASTERNET interface
for HVAC integration



AIRZONE AIDOO interfaces
for HVAC integration



ELFOCONTROL 2
proprietary system



SMARTCOMFORT 365
proprietary system



TU01 / TU02 series
room thermostats

Consumption Monitoring and Load Control

MICROAXS allows you to monitor energy consumption and any electricity production through a photovoltaic panel system, with dedicated management. The measurement of consumption can take place through devices on different technologies. Regardless of the technology, production and consumption data are displayed uniformly in the visualization graphics, and logged within the server.

Supported Systems



Worldwide Standard
for the automation



Worldwide Standard
for the automation



Worldwide Standard
for the automation



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Integration of Intruder Alarm Systems

MICROAXS natively integrates some intruder alarm systems through their proprietary protocol; this makes integrated control of the safety system possible within the visualization, even where this does not operate on standard KNX technology.

Supported Systems



INTEGRA serie
alarm control panel
with LAN communication



PRIME serie
alarm control panel
with LAN communication



GENIO serie
alarm control panel
with LAN communication



TECNOALARM alarm control
panels compatible with
TECNO-OUT protocol



VILLEGGIO, PREGIO,
ETR, PROXIMA series
alarm control panels



BY-ALARM serie
alarm control panel
(arm / disarm alarm)



TACORA serie
fire alarm control panel



VIVALDI EN54 EVO
EVAC System

Integration of Video Surveillance Systems

MICROAXS allows viewing of the stream of compatible cameras, directly from the MICROAXS app, without having to open the dedicated app. The various parameters made available during the configuration allow you to set the addresses to point to on the local network and remotely.

Supported Systems



Network Cameras,
NVR/XVR, HDCVI



Network Cameras,
NVR/XVR, HDCVI



Network Cameras,
NVR/XVR, AI-BOX



Network Cameras,
NVR/XVR, AI-BOX



Network Cameras



Universal Support



Video Stream and
HTTP requests



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Integration of Multimedia Systems

MICROAXS allows communication with the building's multimedia systems connected to the local network

Supported Systems

VIVALDI

CA20/21, FREENET, MK2/3
multi-room system series

SONOS

WIFI based
multiroom system

DENON

HIFI system based on
proprietary protocol

ONKYO

HIFI system based on
proprietary protocol

Pioneer

HIFI system based on
proprietary protocol

SAMSUNG

Samsung SYNCMASTER
Professional TV Monitors



LG SMART TV with
LAN communication



BLUSTREAM
Audio/Video matrixes



IRTRANS interfaces
for IR integration



ARTNET converters
for DMX integration

Integration of Voice Assistants

MICROAXS in combination with the MICROAXS Cloud service allows interaction with the home automation system experience of the audio and video terminals in the various areas of the house or office from any device: smartphone, tablet, PC / Mac. through voice commands given to the Amazon, Google and Apple smart speakers. Simple voice messages allow you to execute commands, request the status of the devices and start scenes; vocal interaction with the KNX standard home automation system joins, in the presence of an Internet connection, interaction via wall-mounted devices and mobile devices (remote control through the voice assistant app).

Supported Services



Amazon Alexa
Voice Assistant



Google Assistant
Voice Assistant



Apple HomeKit
Voice Assistant



IFTTT Automations
(third party cloud)



Weather Station
(third party cloud)

