

Arcus-EDS

Product Description **LCD-Color-Display**



MicroVis II logic+

MicroVis II logic+, LCD-Color-Display, DS01-C-xx

Article Nr: 200111xx
(x: 0=without panel; 3=with V2A-panel)
(x: 1=white; 2=anthracite)

The LCD Display **MicroVis II logic+** communicates with different devices of the modern electric installation via the KNX/EIB-bus.

The LCD Display **MicroVis II logic+** is used for operating, displaying, monitoring and reporting in EIB/KNX systems.



The visualisation of the functions and the content of the pages can be configured completely free. So every installation can be arranged according to the customer's options.

A rotary control button leads through the menu and allows not only to switch easily but also to set up analogue values as e.g. temperature, brightness or volume.

Areas of application:

- Switching and Dimming of the lighting
- **Display** of the switching status in the house
- Recording and recalling of light scenes
- Switch-on, and -off of various devices
- Manipulation of jalousies, also with extensive functions
- **Alarm functions**, acoustical and optical, with text indicator
- **Alarm display** of motion detectors with text indicator
- Display and setting up of the **heating control**
- Title selection and volume adjustment in **Multiroom**-plants
- **Display of outdoor and indoor temperature, time and date.**
- Direct recalling and setup of the internal **clock timer**
- Representation and recall of system-resident **JPG-pictures**, e.g. access control
- Protection of pages with **Pin-Code** (e.g. for the heating control)
- Display of the temperature run within the time using a **diagram** (Forth-program)
- Metering and display of the **cycle time** of the electric devices in bus
- Logical and/or functions

The LCD Display **MicroVis II logic+** is compatible with most series of switch programs with a frame of 55x55 mm. (e.g. Gira, Jung, Merten) and is mounted onto a standard box.

No external electricity is needed. Start-up and parameterization with the graphic java-based software-tool „ArcSuite“ through a mini-USB cable. See actual project under www.arcus-eds.de/Downloads or www.arcus-eds.de/Forum.

Technical Data:

Software ArcSuite:

- Java based PC-Software for projection of the MicroVis II logic+, Download www.Arcus-EDS.de
- LCD Display MicroVis II logic+ is programmable via USB-port

**Hardware:**

- LCD-Color Display: 160x128 Pixel, BxH 37 x 30mm, 48mm diagonal
- 50 MHz Arm7-Processor (256kByte internal memory) for quick 32-Bit integer operations and 64-Bit floating point calculations
- 128 kByte memory size for use e.g. 24 JPG-images for one project
- Piezo-signaler for alarm messages
- Rotary control button with detent for input and navigation
- Adjustable LED background-lighting

Graphic and Software:

- Free design of page contents
- 32 elements can be defined free in size and position
- The number of pages is limited only by the internal memory space (31kB), more than 20 sites are possible
- Different character fonts, font sizes, editable fonts
- Attachment of jpg-graphics as background picture for representation elements
- Freely programmable surfaces and text elements
- Assignment of pictures as value elements, assignment of text as value elements
- Switch-key/push button, turning dimmer, value display, list display of values and text, horizontal and vertical value bars
- Value bars adjustable turning the rotary button (number and size of steps adjustable)
- Setting of system-values on the display (brightness, contrast, system-date, system-time, standby-time)
- Pages directly callable by a button (compilation of the menu), hiding of pages
- Setup of a freely definable Pin code to protect pages
- Display of HVAC-Icons (Heating, ventilation and air-conditioning icons)

Special applications:

- With the additional programming language Forth can be generated independent elements
- Programmable day-, and week-clock timer, KNX-datapoints and arrangements can be recalled by the clocktimer
- Setup of a freely definable scene-generator with memory function in KNX-Modus, different KNX-datapoints can be recalled with a button with their respective values and be recorded
- About user functions can be generated independent objects, which are not provided as e.g. special switches, logical functions or graphical applications (diagrams)
- Extensive operating element (jalousie switch-key), every operating sequence can be associated to different group addresses
- Integrated temperature and humidity recording (only MicroVis II logic+ with additional module in standard 55mm)
- Alarms

KNX-elements:

- Up to 128 group addresses through polling with start
- 17 EIS-types incl. 14byte ASCII-character string
- Listening group addresses
- Filtered acceptance of group addresses from the ETS
- Direct dimming function with rotary control button, dimming through stop telegram
- Buttons (1bit) as switch or key elements with stop telegram
- System time/system date
- Brightness, contrast and background lighting adjustable by KNX-object
- All KNX-types callable as alarm function
- Acoustic alarm freely programmable

Affixing:

- Connection and supply: directly on the KNX-bus, DC 24 V, ca. 10mA, no auxiliary supply necessary
- No Bus-Coupling necessary
- USB-port on the side (covered by the design frame)
- Fittings to a standard flush-mounted box with a simple, or multiple frame of various switch-program manufacturers (not included in delivery)
- Environment temperature: Storage -5...+60 °C, Operating -5...+55 °C
- Measurements: W x H x D, 55 x 55 x 22 mm without design frame
- Protection: IP 20
- Colours available: white, anthracite, white with V2A-panel, anthracite with V2A-panel, on request also special colours possible
- Delivery incl. supporting frame, USB-cable and ArcSuite Software
- Start-up with the ArcSuite Projection-Software

Application area:

To bond further components and functions the MicroVis II logic+ is provided with a plug contact for the product relevant databus and the necessary software. To this plug contact can be connected various sensors of the Arcus-EDS program.

This extension permits to combine economically to the display a temperature-humidity sensor and a dual binary interface. The main components of a simple room control system can be integrated in a triple switch combination.

As an accessory module can be allocated the Temperature-Humidity Sensor SK03MV-TF-I in 55mm standard. This sensor will display a temperature and a humidity value to MicroVis II logic+ and send it as object to the bus. Programming and setting will be effected with ArcSuite. Connect the Temperature-Humidity Sensor SK03MV-TF-I with the provided 20 cm long ribbon cable.

The MicroVis II logic+ does not include HVAC-Functions for heating control. You can generate these functions using the Forth-program in MicroVis II logic+, or utilize the SK03-TFK-I as independent TH-Sensor with integrated HVAC and KNX-bus-coupling.

Potential-free Contacts:

Additional to the temperature-humidity measurement, the SK03MV-TFB2-I disposes of 2 binary ports to analyze switch settings (potential-free contacts).



MicroVis II logic+ white with
Gira frame glasprogram,

Below: Lateral view

SK03MV-TF-I, Temperature-Humidity-Sensor

The SK03MV-TF-I is a temperature-humidity-sensor, connected to the MicroVis II logic+ by the product relevant bus. The high-grade sensor and its separated mounting from MicroVis II logic+ make it possible to obtain a high accuracy and short reaction-time.

For the requested switch program the SK03MV-TF-I and the MicroVis II logic+ can be integrated both together in a double- or multiple-frame-combination. It is available in the colours white, or anthracite, with 55mm profile.

The TF-Sensor SK03MV-TF-I connected with MicroVis II logic+ presents an economic variant for temperature and humidity recording.



SK03MV-TF-I white

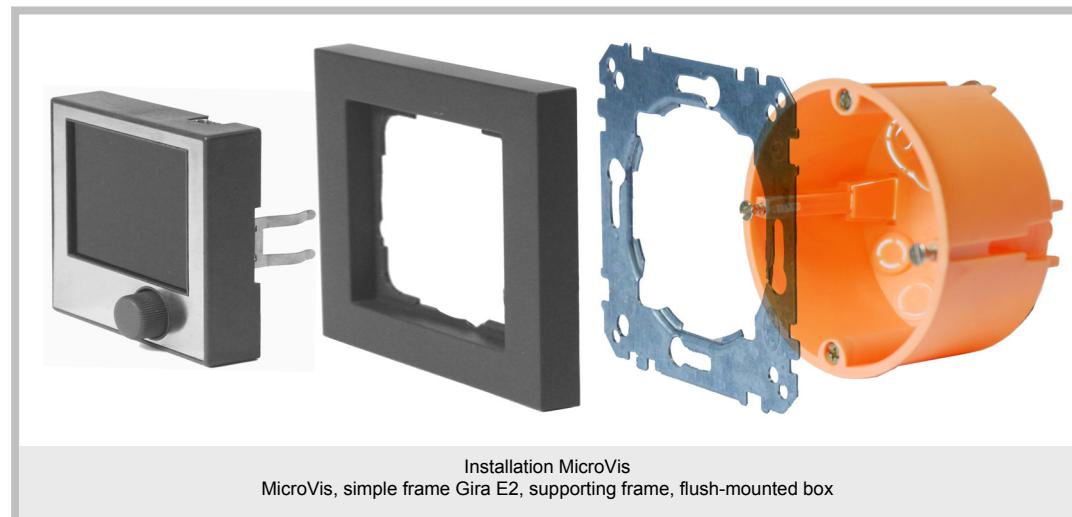
The start-up is effected in MicroVis II logic+ using ArcSuite.

The measured variables, temperature and humidity, are recorded and displayed as KNX-objects to the bus by MicroVis II logic+. The allocation of group addresses and parameters are set with ArcSuite.

As adjustment parameters you determine offset, the period of data transmission and transmission by value changes. The SK03MV-TF-I does not provide independent HVAC nor deduced values. Additional functions as Min/Max-Alarm, Continuous or HVAC can be generated using the Forth-program in MicroVis II logic+.

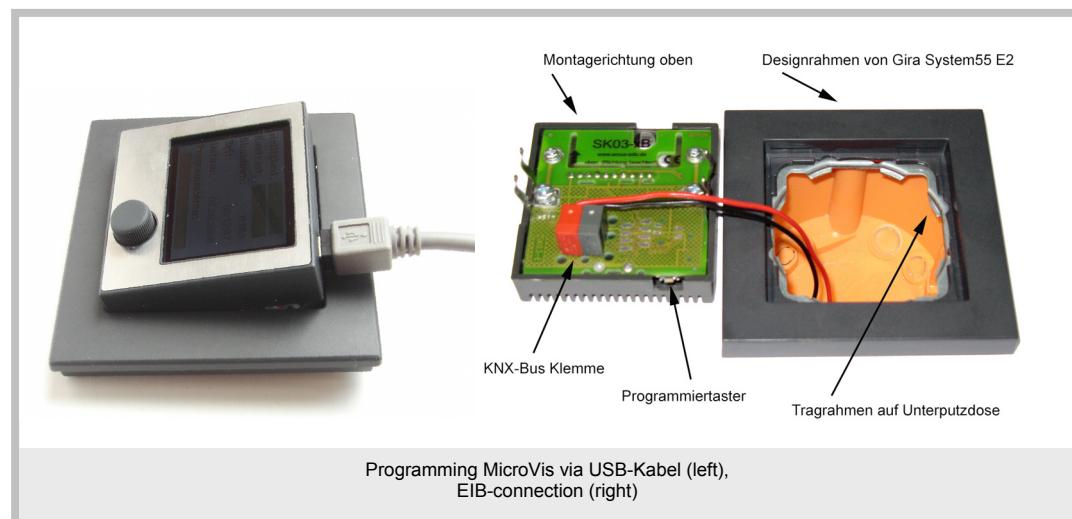
As a service can you purchase from Arcus-EDS Forth-programs, controllers or other elements customized for your application.

SK03MV-TF-I anthracite with
MicroVisII logic+

Installation MicroVis


The MicroVis is delivered with a supporting frame to fit on a 68 mm flush-mounted box, a USB-cable and a software-CD.

The MicroVis can be integrated in every switch program with 55 mm profile. Make an optic test of the combination of your preferred frame model with our MicroVis before fitting.

USB- and KNX- Connection


The USB-cable is stuck from underneath directly on to the circuit board with a KNX-clamp. The display can then be clicked into the box with the suitable single frame.

To connect the USB-cable, pull the display lightly out of the socket from the upper side. It is not necessary to interrupt the KNX-connection.

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