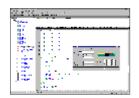




# the Modular Building Management System

## **Key features**













#### IEC 61131-3 programming

- integrated development environment
- comprises e editor, compiler and online monitor
- bit, word, integer, long integer and floating point data types

#### Large memory

• 512K flash + 4Kb permanent EEPROM

#### Fast 16-bit processing

• 250ns basic instruction

#### Network performance

- High-level network: Ethernet + TCP/IP
- Low-level network: CAN-BUS
- Fast transmission 100 kbps

#### Operator panel with IR-receiver + temperature sensor

• Simple configuration tool (template editor with menu functions)

### Connection to control system

- Driver for IMPERIO-Control System Software
- OPC driver available

#### Freely programmable serial interface

- Functions for sending and receiving of strings
- Connection to printers, sensors, scales, modems, GSM devices

#### High-speed counter

- 4-fold evaluation
- Protection against glitches

Real-time clock



## Range of application



Typical fields of application:



- Domestic architecture
- Nursing- and retirement homes
- Hospitals
- Home Automation
- Prefabricated houses
- Food store chains
- Shopping centers
- Fashion Outlets
- Super markets
- Professional caterers
- · Restaurant and food chains
- Boarding houses
- Hotels, hotel chains
- Clothes shops
- Banks and savings banks
- Building centers
- Gas stations
- Automobile industy
- Car dealers
- Chains of opticians
- Refrigerated warehouse chains
- Furniture stores and chains
- other chain stores
- Production plants
- Industrial and commercial building
- Power industry
- Hydro power stations and wind mills
- pumping station controlers (with remote station)
- Railways
- and many more ...

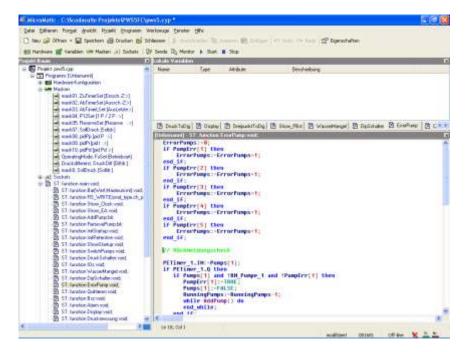




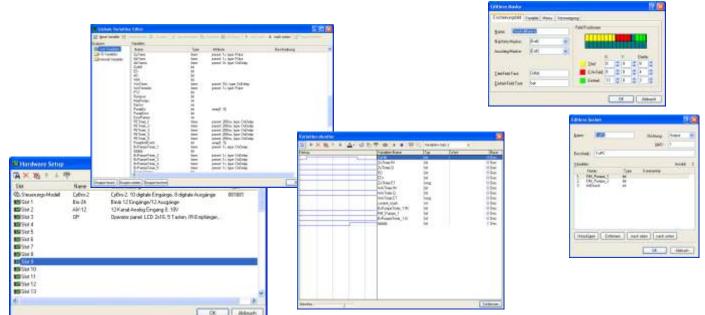




# **Programming**



- IEC 6113
- IEC 61131-3 programming
- · integrated editor, compiler and
- Online-monitor
- Grafic display of trends with monitor variables
- Syntax colouring
- Template generator for operator panel
- Simple network configuration
- · interactive declaration of variables
- Project tree for simple project management
- Code helper for direct access on functions and variables
- predefined system variables
- Source code is stored in the PLC
- Adjustable CPU load for PLC function and communication
- · Programming via networks possible

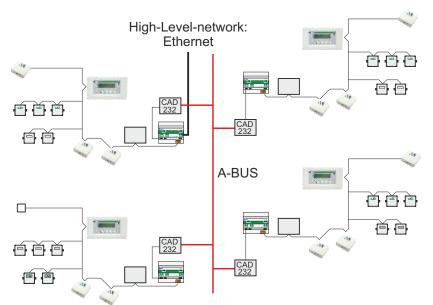




# **Connectability**

### System structure

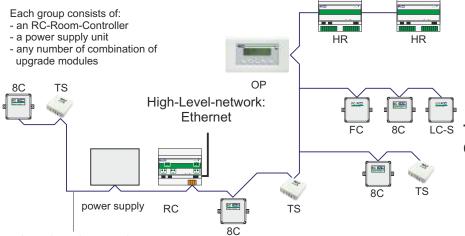
Low-Level-network: CAN-BUS



# Technical characteristics: A-BUS

Bus length: 1000 m max. Number of groups: 32 max. Baud rate: 19200 bps

For the connection of the groups via A-BUS A RS232/485 converter for each group is required.



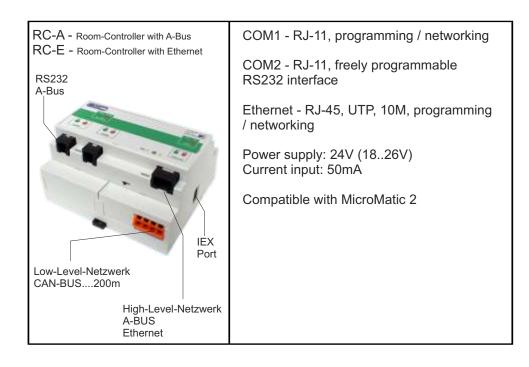
# Technical characteristics: CAN-BUS

Bus length: 100m max.
Number of nodes: 64 max.
Baud rate: 100 kbps max.
Power supply: 24V DC

# **Basic components**

## **Room Controller**

The room controller is the heart of a MicroMatic BM system. It controls and operates all connected periferal devices.





## **Available extensions**

HR Module for hotel

### Software



- IEC 61131-3 programming software
- OPC Server
- communication library for Visual Basic, C, Delphi etc.

#### Accessories

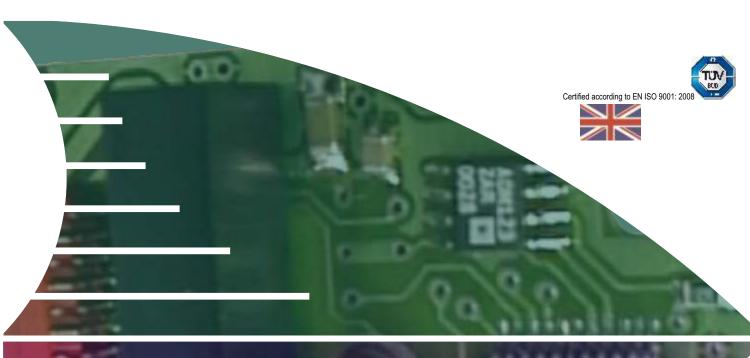


OP-2 OP-BM	2x16 digit LCD display, IR-receiver, temperature sensor and buzzer.
OP-4	2x20 digit LCD display, IR-receiver, temperature sensor, humidity sensor, dimmer input, push- and rotation knob for input
IR - RC	infrared remote control, Switching, controling, dimming
MS - Multisensor	IR-receiver, photometer and motion detector
ES - External Sensor	ES-W External temperature sensor (wall mounted)
TS- Temperature-Sensor	Temperature sensor with connection of an external sensor.

### IEX upgrade module

HR - Hotel-Room-

Controller	rooms or similar applications Controls heating, air condition, lighting, fire alarm and emergency button.
LC-S (Standard)	For analogue controlled loads, Inputs for potentiometer, photo sensor, motion detector and switches.
LC-D (DSI/DALI)	For digital electrically controlled loads. Inputs for potentiometer, photo sensor, motion detector and switches.
FC - Climate-Controller	3 fan speeds, 2 control valve outputs, 2 temperature sensors, 1 external input window contact
8C - Universal 4in / 4out	Universal I/O module with 4 relay outputs and 4 potential-free inputs.
SW-W2 - Switch Module	4 potential-free inputs with open cable ends, 4 LED outputs, for mounting behind wall mounted buttons and switches
O2 - Output Module	2 relais outputs with max. 12 A for direct connection of lamps, blinds, etc. for mounting in wall outlets



# technologies for excellence

- **IMPERIO Process Control Technology**
- MES Manufacturing Execution System
- BAS Building Automation System
- GCS Galvanic Control System
- CWS Cable and Wire System
- WSS Water Supply System
- WWS Waste Water Systems
- **ABACS Automatic Bath Analysis and Control System**
- Comatic Industrial-PLC
- MicroMatic Compact-PLC
- **Control Cabinet Construction**

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