MICROSENS

Data Sheet
Smart Building Manager

Overview

The MICROSENS Smart Building Manager is the superordinate, central management tool to control the building technology, monitor and update device configurations and visualize all relevant operating parameters and consumption values of your Smart Building.

The Smart Building Manager collects and provides all the information from central as well as distributed systems of the building and supports with a clear event and alarm overview a smooth operation of your building.

Current and past operating states and consumption values can be shown in diagrams and charts to optimize the buildings efficiency.

Portlets – small software modules – give the possibility for individual adjustments and functions to meet the customers' requirements.

Highlights

- Central management for Smart Buildings

- Extensive data analytics including chart tools

- Event and alarm handling

- Portlets for adding customer specific features

- Easy and fast commissioning

- Simple and scalable licensing model

Feature Stack

Building Structure

- Custom building topology
  - Location, building, rooms, room types
  - Import and export of building topology using BIM xml file
- Custom technic tree
- Customizing UI using portlets
  - Building overview
  - Room visualization
  - Technic visualization
  - Building visualization

Data Visualization

- Room visualization via custom portlets
- Visualization of technic devices via portlets
- Chart tools
  - Build-in charts
  - Custom chart builder
- Advanced Data Visualization via time-series database and dashboard applications

Data set handling

- Auto-detection of data points exposed by Smart Director Apps
- Import data point definitions of MQTT topics

SBM platform services

Database Support

- Embedded relational database to store persistent data
  - Central repository for all kind of building data
  - Database backup
  - Restore database from backup
  - Database replication service

User Management

- Manage list of administrator accounts with access to the SBM UI
- For different administrators, restrict access (authorization) to an isolated part of the building only

Logging

- Logging events in a central place

Replication and failover

- Setup and configure a master & slave server environment
- Switch over to slaver server if master fails
- Fall back to the master server if master server is up and running again

Languages

- German
- English

Event & alarm handling

- Filtering of events and alarms
- Forwarding of SNMP events
- Sending an Email as reaction on an detected event/alarm
- Mapping events using ITU style
- Client defined alarm rules
- Import and export of alarm rules
- Client defined alarm categories
- Verify alarm history, review of acknowledged alarms

Tasks

- Creating tasks to execute jobs manually or based on a schedule
- Monitor tasks that are currently executed
- Show list of all tasks executed in the past, including execution state

Scheduler

- Multiple schedule definitions for workflow automation
  - Only once
  - Daily
  - Weekly
  - On weekends
  - Yearly
  - Date based

Device Management

- Device discovery
- Deployment of firmware updates
- Configuration and backup of device configurations
- Deployment of configuration scripts
- Inventory data
    - o Amount of devices
    - o Hardware information
    - o Firmware version
    - o IP address, mac address

Supported protocols

- MQTT
- Modbus IP
- FIAS
- SNMP
- FTPS

System requirements

OS	Windows 10, 64 Bit
CPU	3 GHz, 4-6 Core
RAM	4 GB
Free disk space	2 GB (minimum)
Display resolution	At least 1280*10246

Validated for an installation with 5000 data points, larger system may require higher performance.

Order Information

Description	Article No.:
Smart Building Manager	
SBM 2.x , SW usage right for 1500 data points and 30 managed objects, 1 year download of updates, installation of SW on max. 1 computer	**MS200240**
Smart Building Manager – Expansion Pack	
SBM 2.x Expansion Pack, SW usage rights for additional 1500 data points and 20 managed objects, 1 year download of updates	**MS200242**