

SAMSON

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TROVIS 6600 Automation System for Building Automation



TAILOR-MADE SOLUTIONS



TROVIS Automation Systems for building automation are used in heating, ventilation, and air-conditioning systems, in district heating and cooling, in transfer stations, and heating plants.

Main fields of application include:

- Offices and industrial buildings
- Hotels
- Hospitals
- Museums
- Schools, swimming pools
- Factory buildings
- Combined heat and power plants

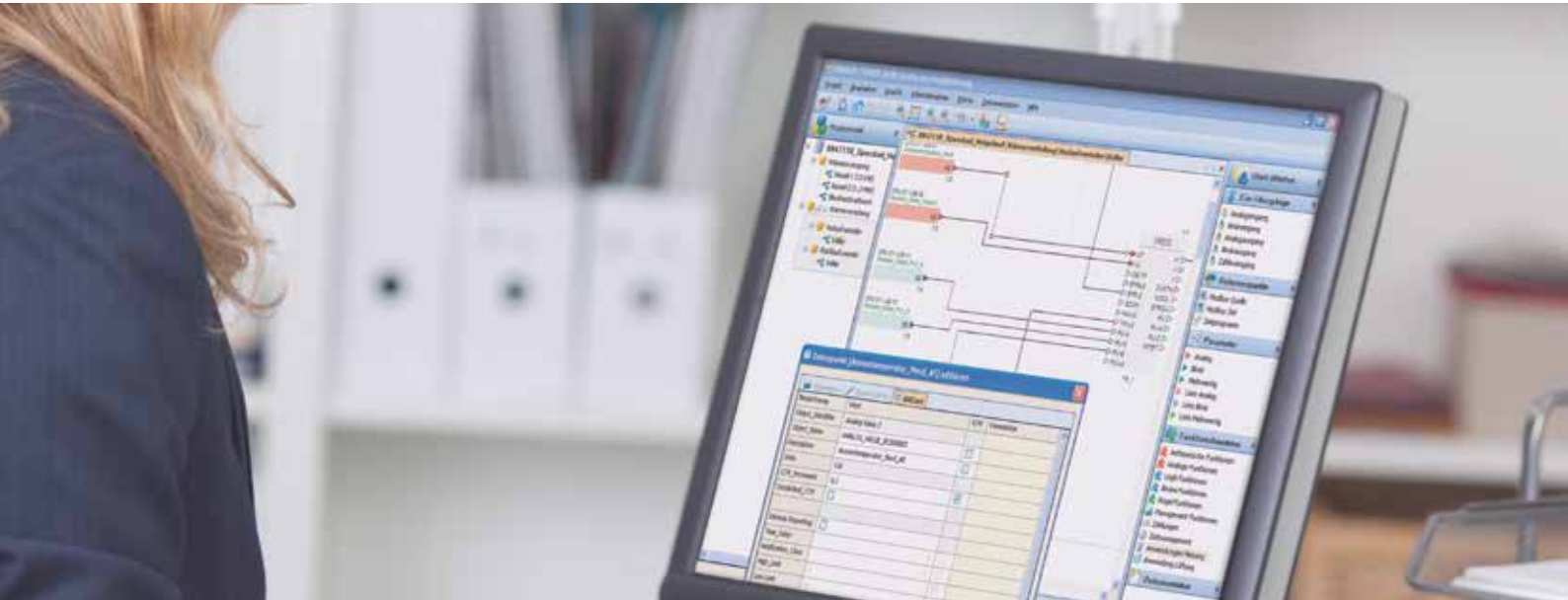
Competent project management including instrumentation and controls as well as system integration into BACnet, LON, and other networks is provided by SAMSOMATIC GMBH. For example for the Mövenpick Hotel in Hamburg, Germany.

Mövenpick Hotel in Hamburg – In 1910, a water tower was built on a hill in the middle of the Sternschanze public park. Work to convert the tower into a hotel began in 2005. The hotel has 226 rooms, including 10 exclusive suites, on 17 floors.

As soon as a guest checks in at reception, the assigned room is brought to the right temperature thanks to the direct communication between the hotel management system and the SAMSON automation system.

The automation system processes over 380 temperature input signals and issues the corresponding control signals to the HVAC devices. In total, 1,500 physical data points are processed.

GRAPHICAL PROJECT MANAGEMENT TOOL



- Creation of BACnet objects during project management
- Automatic EDE file generation
- Up to 40 characters per data point name
- HVAC function blocks (pre-control loop, boiler control, heater, etc.)
- Feedback of active states to the animated plant scheme
- Assignment lists for control cabinets
- Complex copy functions
- Creation of customized macros
- Simulation environment included
- Illustration of the hardware and software models
- Integration of Modbus-enabled units by SAMSON or partner systems, such as BUS-tec MOD (romutec), Menerga, Thermokon, WILO, etc.

BACnet is short for Building Automation and Control networks.

BACnet is a non-proprietary data communications standard for building automation and is used as a communication protocol on the management and automation levels.

BACnet has become an international standard (ISO 16484-5).

SAMSON has integrated BACnet and implemented the BACnet Building Controller (B-BC) profile as well as additional functions into the TROVIS 6600 Automation System.

The TROVIS 6610 CPU Module is certified according to ISO 16484-5:2012 and complies with AMEV profiles A and B.

TROVIS 6600 AUTOMATION SYSTEM



TROVIS 6610 CPU Module

- BACnet Building Controller (B-BC)
- BACnet IP/BACnet PTP, OPC, Modbus RTU
- Linux operating system
- 20 universal inputs
- 12 binary outputs
- 8 analog outputs
- Web server with graphics
- E-mail function
- Text messaging function (SMS)

TROVIS 6620 I/O Module TROVIS 6625 I Module

TROVIS 6620 I/O Module

- 10 universal inputs
- 6 binary outputs
- 4 analog outputs

TROVIS 6625 Input Module

- 20 binary inputs

Up to 32 I/O modules or I modules per CPU module

TROVIS 6630 AO Module TROVIS 6640 AI Module

TROVIS 6630 AO Module

- 8 analog outputs for either current or voltage signals

TROVIS 6640 AI Module

- 8 analog inputs for either current, voltage, resistance signals or transmitter supply
- Pt 100(0) two-wire or three-wire connection





Web visualization

- Maximum convenience thanks to touch screen
- Operation using graphical plant schemes
- Schemes saved in the CPU module
- Data provided by the web server in the CPU module
- No additional license fees
- Automatic list of alarms in plain text
- Color trend graphics of data saved in the CPU module
- Transmission of trend data to a USB stick
- Multi-level access protection
- Several web terminals per CPU module
- Several CPU modules per web terminal

TROVIS 6616 Web Terminal

- Touch screen
- 7" TFT color display
- 800x480 pixel resolution
- Ethernet interface (100 Mbit)
- USB interface
- Panel mounting



**SAMSON**

TROVIS 6600 AUTOMATION SYSTEM



● Production sites

● Subsidiaries

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