

BCRC16160101ME Room Controller

Room controller for apartments, hotels, hospitals, and business centers

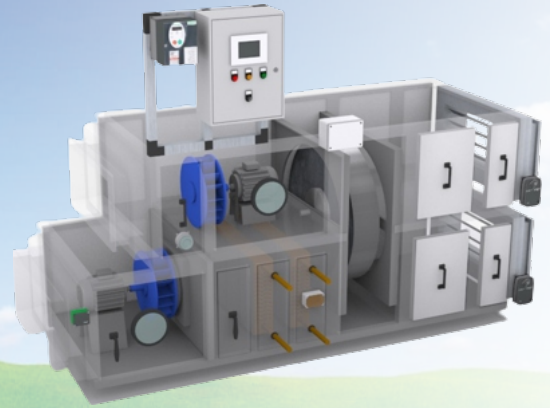
Main Functions

- Lighting control
- Blinds/curtains control
- Electric sockets control
- Fan coil unit control (3-speed, ECM, 2-pipe / 4-pipe)
- DND/MUR and doorbell control
- Energy-saving functions (door/window monitoring)
- Keycard / keyless occupancy control
- Integration with PMS, hotel TV, and door locks

Inputs / Outputs

- ⇒ 16 lighting groups and pushbutton controls via power modules with inrush current limiter.”
- ⇒ 16 relay outputs (max. 5 A) for controlling fan coil speeds, heating/cooling valves, lighting groups, and doorbells.
- ⇒ Single 0–10 V analog output for precise ECM fan coil control
- ⇒ 16 opto-isolated 24 V digital inputs for:
 - switch / push button functions
 - dimming control
 - electric curtain / blind control
 - DND / MUR functions control
 - Scene management
 - Occupancy detection
 - Window state detection
 - Main door state detection
- ⇒ 1 NTC input for room temperature sensor
- ⇒ 1 RS485 port for connecting room thermostats, touch switches, dimmers, and Modbus/DALI or Modbus/KNX gateways (Modbus RTU protocol)
- ⇒ 1 Ethernet port for connection to a building management system (Modbus TCP)
- ⇒ Supply voltage: 24 V DC

Fully configurable, and supports integration with various devices and communication protocols.



BCAH6642ME Air handling unit controller

Supports control of the following types of air handling units

- Air supply handling units
- Air supply & exhaust handling units
- Exhaust ventilation units

● Heating

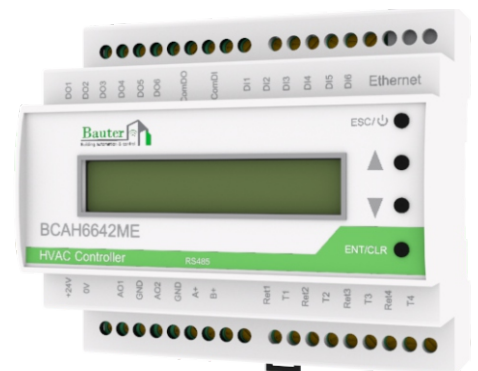
- Ventilation units with water heat exchanger
- Ventilation units with electric heater

● Energy saving:

- Ventilation units with energy recovery heat exchanger

● Cooling

- Ventilation units with freon heat exchanger
- Ventilation units with water heat exchanger



Main Functions

→ Fan control:

- Supply and exhaust fan speed control
- Operating mode "Manual" / "Automatic"

→ Temperature control depending on:

- Supply air temperature
- Extract air temperature
- Room temperature

→ Safety functions:

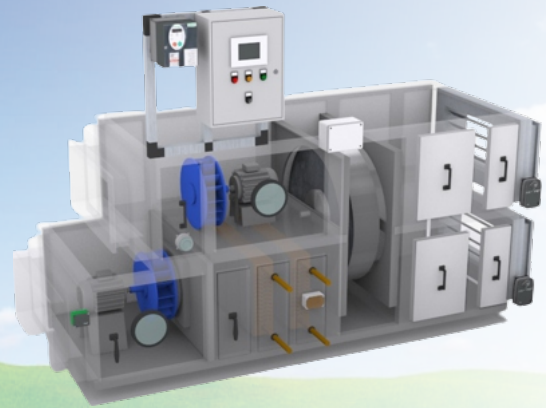
- Fan motors overload protection
- Heat exchanger frost protection
- Circulation pump protection against jamming during long periods of inactivity

→ Rotary heat exchanger mode:

- "Manual"
- "Automatic"
- Circulation pump control
- Air damper control

→ Operating mode:

- "Heating"
- "Cooling"
- "Ventilation"
- "Automatic"
- "Free cooling"



BCAH6642ME Air handling unit controller

Inputs / Outputs

→ 6 × Relay outputs

- Supply and exhaust fan start
- Circulation pump start
- Common alarm
- Heating active
- Filter Dirty
- Air damper open

→ 2 × Analog outputs 0-10V

- Supply/exhaust fan speed control
- Three way heating/cooling valves control

→ 6 × opto-isolated 24 V digital inputs, configurable as:

- In1: supply and exhaust fan frequency converters fault
- In2: Heat exchanger antifrost protection/overheating protection thermostat
- In3: Differential Air Pressure switch for supply and exhaust filters control
- In4: Circulation pump overload
- In5: Remote Heating/Cooling Control
- In6: Disabled, "Fire" from the fire alarm system, Remote AHU ON/OFF

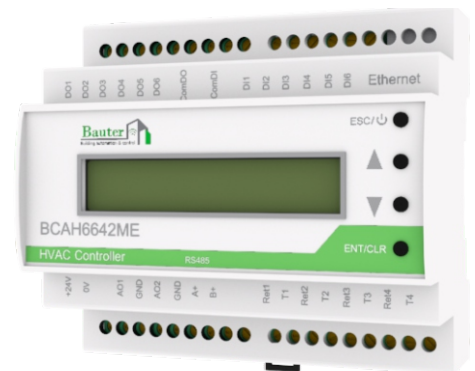
→ 4 × inputs for NTC temperature sensors

- Supply air temperature
- Extract air temperature
- Outside air temperature
- Return water temperature

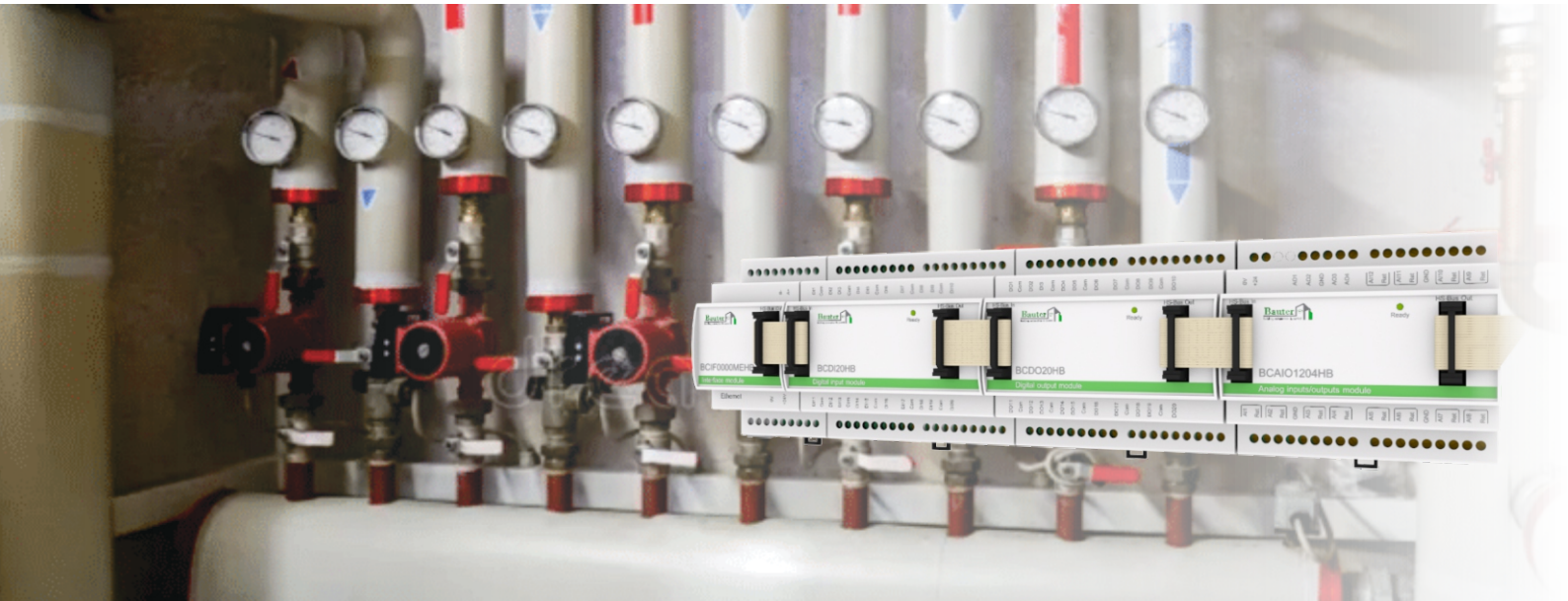
→ 1 × Ethernet port for connection to a building management system (Modbus TCP)

→ 1 × RS485 master interface for connection to room thermostats (Modbus RTU)

→ Supply voltage: 24 V DC



Fully configurable, and supports integration with various devices and communication protocols.



BCIF0000MEHB Modular Controller

Modular I/O controller for Boiler rooms, Heating/Cooling plants.

Interface module

BCIF0000MEHB

- Up to 8 I/O modules can be connected to one interface module
- Ethernet port for integration with BMS (Modbus TCP)
- 1x Rs485 interface for configuration (Modbus RTU)
- 1x High speed communication interface for I/O modules



I/O modules

BCDO0020HB

⇒ 20 × relay outputs, max. 5A (resistive load)

⇒ Power supply: From HB bus



BCDI2000HB

⇒ 20 × opto-isolated 24 V digital inputs

⇒ Power supply: From HB bus



BCAI01204HB

⇒ 12 × analog input NTC / 0-10v

- NTC 10K
- 0-10v
- 4-20mA

⇒ 4 × analog output 0-10 V

⇒ Power supply: 24 V DC





BCFP1808ME MCC controller

MCC Controller for Pumps, Fans and smoke exhaust systems

Main Functions

- Flexible operation – manual or automatic control of pumps, fans, and smoke exhaust systems
- Improved safety – emergency smoke exhaust mode, alarms, and fault logging
- Smart monitoring – motor operating hours, start counters, and remote diagnostics
- Seamless integration – direct connectivity with BMS and SCADA
- High reliability – automatic changeover between duty and standby motors for uninterrupted operation
- Energy efficiency – optimized motor coordination reduces wear and power consumption

Inputs / Outputs

- ⇒ 8 × relay outputs, max. 5A (resistive load)
- ⇒ 18 × opto-isolated 24 V digital inputs
- ⇒ 1 × RS485 port for connecting room thermostats, touch switches, dimmers, and Modbus/DALI or Modbus/KNX gateways (Modbus RTU protocol)
- ⇒ 1 × Ethernet port for connection to a building management system (Modbus TCP)
- ⇒ Supply voltage: 24 V DC



BCPM0101M Power module

Smart power module for lighting control with inrush current limiter, configurable 24 V DC input, and RS485 Modbus RTU communication. Suitable for hotels, hospitals, shopping centers, business centers, and residential buildings.

Use Cases

- Hotels: public areas and guest rooms
- Hospitals: public areas and wards
- Shopping centers
- Business centers
- Smart home projects
- Other public and residential buildings

Key Features

- ⇒ Inrush current limiter with SSR electronic switch
- ⇒ Long-term overcurrent protection and high-speed short-circuit protection
- ⇒ Configurable input for local control (toggle or momentary action)
- ⇒ Remote control and monitoring via RS485 Modbus RTU

Benefits of Using the Smart Inrush Current Limiter

- Extends service life of switches, power supplies, and LED lamps
- Reduces risk of fire from faulty consumer devices
- Enables use of smaller cable cross-sections, reducing installation cost
- Reduces the number of inputs/outputs needed on the lighting controller
- Remote monitoring of energy consumption, current, voltage, and operating time

Specifications

- ⇒ Supply voltage 90–240 V AC
- ⇒ Maximum load current 16 A
- ⇒ Protection response time During one period of mains voltage
- ⇒ Communication interface RS485 Modbus RTU
- ⇒ Frequency 50–60 Hz