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Type TAM



ADAPTER MODULE FOR THE EXPANSION OF THE EASYLAB SYSTEM

Adapter module as an interface between fume cupboard control and room control, and to the central BMS

- Plug and play communication with up to 23 EASYLAB controllers, fume cupboard controllers, or room controllers
- Additional data points for the integration of other variable and constant volume flow rates into the room balance, e.g. controllers or fume hoods
- Can be set up as room interface to the central BMS
- Connection of a room control panel for the signalling and use of room functions
- Used when fume cupboards are used in a room

Expansion options

- Connection to the mains (230 V)
- Expansion modules with LonWorks, BACnet or Modbus standard interfaces to the central BMS
- Room control panels for operating mode default setting

Application

- Adapter module Type TAM for the expansion of the EASYLAB system, in particular for the integration of fume cupboards
- Interface between fume cupboard control and room control
- Interface to the central BMS, voltage signals 0 – 10 V or with expansion modules for LonWorks, BACnet, Modbus
- Very simple commissioning: automatic controller identification, no component addressing required (plug and play communication), configuration software with interactive menu navigation and extended diagnostic functions
- Project-specific configuration using expansion modules and room control panels
- Numerous options for the integration of additional volume flows into the room balance
- Room management function (RMF) can be activated
- For use in laboratories, clean rooms in the pharmaceutical and semiconductor industries, operating theatres, intensive care units, and offices with very demanding control requirements

Special characteristics

- Plug and play communication with automatic controller identification, no component addressing required
- Modular system for functional expansion
- Connections and status displays on the outside of the controller casing
- Project-specific adjustments using adaptable room control panels
- Project-specific adjustments can be achieved with configurable special functions, monitoring, and alarm signalling
- Permanent function monitoring of the system
- Very simple commissioning, configuration changes and diagnosis
- Centralised configuring and permanent signalling of room settings (room management function)
- EasyConnect configuration software enables interactive navigation (also wireless)
- Factory tested and configured with project-specific parameters

Operating modes

- LAB: extract air led system for laboratories
- CLR: supply air led system for clean rooms
- LAB/CLR-RMF: System with active room management function

Parts and characteristics

- Microprocessor system with programme and system data stored in nonvolatile memory
- Double-stack terminal block for supply voltage connection
- Connections for two control panels
- Connection of communication line to plug socket or screw terminals
- Digital outputs with screw terminals
- Digital inputs with screw terminals or plug socket
- Analog inputs with screw terminals or plug socket
- Analog outputs with screw terminals

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- Integral terminal resistor for the communication line
- Alarm indicator lights on both sides of the casing
- Status indicator lights (heartbeat, communication and terminal resistor)

Attachments

Expansion modules are factory mounted or can be fitted at a later stage

- T: EM-TRF, power supply unit for connecting the controller to the 230 V AC mains voltage
- U: EM-TRF-USV, power supply unit for connecting the controller to the 230 V AC mains voltage and to ensure uninterrupted power supply
- L: EM-LON, LonWorks FTT-10A interface
- B: EM-BAC-MOD-01, interface configured for BACnet MS/TP
- M: EM-BAC-MOD-01, interface configured for Modbus RTU

Useful additions

- BE-LCD-01: Control panel for fume cupboard control and room control (only for operating mode ...-RMF)
- Differential pressure transducers: Static differential pressure transducers for room pressure control or duct pressure control
- EasyConnect: Configuration software for the commissioning and diagnosis of EASYLAB components

Construction features

- Main PCB and expansion modules in one casing
- Angle bracket for fixing the casing in a switch cabinet or to a wall or ceiling
- Casing can be opened without tools, except for TAM with EM-TRF or EM-TRF-USV
- Pin header socket for the connection of expansion modules
- Plug sockets for the most important connections on the outside of the casing

Materials and surfaces

- Casing made of ABS plastic, blue (RAL 5002)

TEKNISK INFORMATION

Function, Technical data, Specification text, Order code, Related products 

Room management function, Interfaces, Product details 

Installation details, Operation 

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