



Expansion module ADM for the CPS-M
Sales Information

Analog Digital Module (ADM-AD1-1212-4)



- » 4 user-programmable multifunctional inputs (digital or analog)
- » 8 user-programmable digital inputs and 12 user-programmable digital outputs
- » Simple retrofitting without wiring effort in existing CPS-M control panels via the proven expansion module sockets
- » Compact design for measurably more space in the standardized module housing with 26 mm width
- » Flexible configuration options via the D+H Software SCS (Service and Configuration Suite)

Availability

Orderable from: directly
Deliverable from: 27.07.2020

1 Advantages

- » 8 digital inputs and 12 digital outputs for evaluating signals and reporting system statuses
- » 4 multifunctional inputs can be used for the evaluation of analog or digital signals, e.g. for the evaluation of 0-10 V temperature sensors
- » Acquisition and conversion of analogue values and forwarding in AdComNet
- » Each analog input has four adjustable threshold switches that can be used to implement simple two-point control or advanced control scenarios
- » Simple retrofitting of existing CPS-M systems without wiring effort via expansion module sockets
- » Compact design in standardized CPS-M module housing
- » Bus communication between the ADM module and all other components in order to process incoming signals directly in the controller and thus ensure smooth operation
- » Individually configuration via the D+H software SCS, which can also be used for all other D+H components
- » Subsequent functional expansions via software updates are guaranteed
- » Permanent short-circuit resistance of all potential-loaded digital outputs
- » Enables the simple implementation of ventilation scenarios by evaluating analog sensors
- » Connection of all cables via removable push-in terminals

2 Details

The CPS-M has been developed as a modular SHEVS control panel for natural smoke ventilation, certified according to EN 12101-10 and tested by the VdS. Its main application is the control of 24 V drives for smoke extraction in the event of fire and for natural ventilation.

The modules, as well as the new Analog Digital Module, are conveniently mounted on standard 35 mm top hat rails via the expansion module sockets. Integrated plug connectors in the module sockets ensure that the power supply and bus communication are guaranteed without wiring.

The ADM extends the existing range of functions of the CPS-M control panel by additional analogue inputs. Analogue signals can be evaluated and system statuses can be reported. Due to the free configurability of the digital / analog inputs and digital outputs via AdComNet (Advanced Communication Network), operating elements such as analog temperature or LPG sensors, ventilation buttons and signal transmitters can be freely set up via the D+H SCS software and connected to each other in logical links as required.

Ventilation functions in particular are difficult to implement without analogue sensors. The following scenarios shows possible example of applications for the ADM.

Setting window opening angles

With the ADM, value-continuous (non-discrete) control and regulation signals can be used for window groups. This makes it possible to set window opening angles via analog control elements.

The BMS can use a 0 V - 10 V signal for positioning.

External temperature- or weather sensors with analogue output signals can also be combined to control the window opening angle.

IF-THEN links

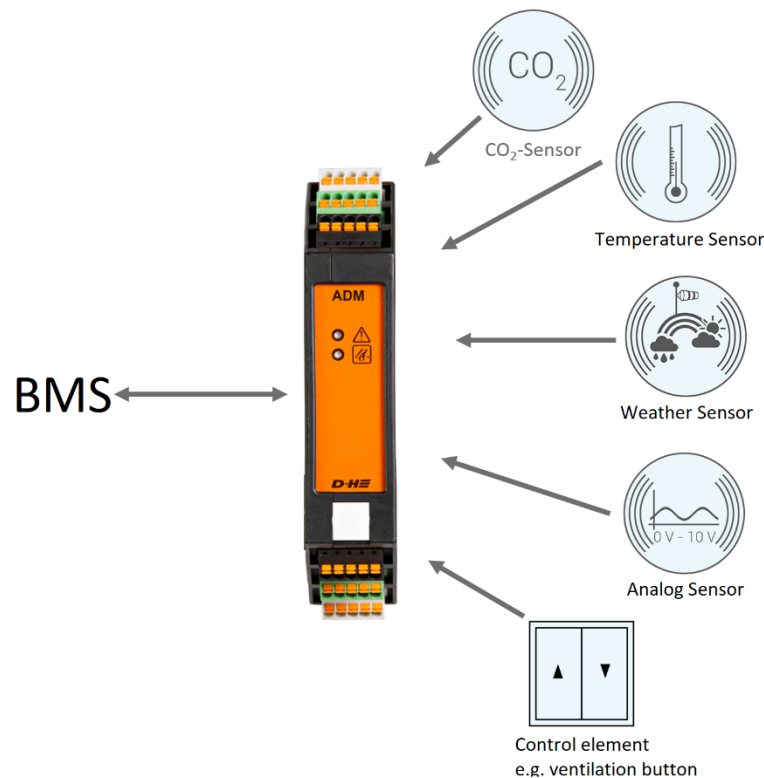
Among the more demanding example of application for ADM are the if-then relationships based on analog input signals.

They allow a relatively simple integration of analog sensors into existing digital control concepts without additional hardware.

This allows temperature and/or air quality sensors to be implemented in a ventilation concept.

Furthermore, analogue wind sensors can be integrated into smoke and heat ventilation systems in order to realise a wind dependency.

Example: IF temperature exceeds 25 °C AND CO² exceeds 1000 ppm THEN open the window.



Information

Training material and instruction for use are available for detailed information about configuration, connection etc.

3 Technical data

ADM-AD1-1212-4	
Installation	35 mm top hat rail (with expansion module socket)
Dimension (W x H x D)	26 x 130 x 125 mm
Analog / Digital Inputs	
Quantity	8 digital and 4 multifunctional inputs
Switching mode	Minus- or plus -active
Voltage range	0 ... 28 V DC
Cable cross section	max. 1.5 mm ² flexible
Digital Outputs	
Quantity	12
Output current	max. 50 mA
Output voltage	24 V DC
Cable cross section	max. 1.5 mm ² flexible
Display fault	LED - yellow
Display alarm	LED - red

4 Scope of supply

- » 1 x Analog Digital Module (ADM-MS)
- » 1 x Instruction for use

5 Planning documents / Sales information

- » Tender document text and product information available

6 Price

Part.-No.	Type	Description	Price
30.704.90	ADM-MS	CPS-M expansion Analog Digital Modul, 12 Inputs, 12 Outputs	440,00 €

All prices are gross prices without VAT (price list prices)!
The above prices are valid until the new price list is published.

Contact

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