

- 1 D+H Mechatronic (english)**
- 1.1 CPS-M Series (MSE)**
- 1.1.1 SHEV control panel - modular - CPS-M1-MSE - freely configurable**

**24 V DC / 230 V AC / 400 V AC / Special production according to customer requirements**

**Performance features:**

For the activation and supply of 400 V AC fans for smoke exhaust in connection with 24 V DC and/or 230 V AC opening drives for the automated and emergency-powered opening of air supply openings;

The MSE control panel is approved for the 24 V DC range according to EN 12101-10;  
Variable modular technology for complex position requirements;  
Cable monitoring for short-circuit and recess for all electrically driven 24 V DC and 230 V AC drives for air supply and daily natural ventilation;  
Precisely positioned activation of windows and skylights in conjunction with D+H ACB drives;  
Flexible system design with any combination of functional modules;  
Installation on 35 mm supporting rail system;

Possible function module:

- Controller module - CM-BT1-D4-P2
- Supply module - PSM-1-24-40
- Actuator module 24 V DC - AM-1-2-10-24-D6-D2
- Actuator module 230 V AC - AM-1-1-08-230-D4-D2
- Trigger module - TMA-1-D4-D12
- Bistable relay module - BRM-1-COC-0006
- Input output module digital - IOM-D1-1212
- Input output module analogue & digital- ADM-AD1-1212-4

Possible bus communication:

- KNX and Modbus via the D+H KNX Modbus RTU Gateway and ACN-GW501-MRTU AdComNet Modbus gateway

Object related visualization via touch panel possible;

Remote maintenance possible via the RM-GW-ETH gateway. Remote diagnosis of operating states and fault events;

Can be expanded via the AdComNet interface with further CM modules and AdComNet enabled devices from D+H;

Integrated 400 V AC mains switchover;

Addition of the drive current in 20 A steps;

Max. 10 A drive current per 24 V DC group;

Max. 8 A drive current per 230 V AC group;

Connection of up to 10 SHEV operation panels or 30 fire detectors per line (Only detectors permitted by D+H may be used);

Supply of all 24 V DC components in case of mains outage via independent internal emergency power supply for 72 h;

Power path with main switch and power distributor (rail system) up to 800 A; activation of 400 V AC fans using soft starters, frequency converters or direct start;

Integrated comfort functions for daily ventilation:

- Storage/key operation;
- OPEN running time limit
- Ventilation time limitation

Integrated protection functions:

- Weather signal = CLOSED control
- Mains outage = CLOSED control
- Temperature sensor for monitoring the operating status
- Smoke protection link to protect adjacent fire compartments against retroactive smoke introduction

Components can be retrofitted in case of building modifications;

Switchable MSE safety functions:

- Fault equal to alarm
- SHEV retriggering function and smoke detector remote reset
- Integrated monitoring of the fan maintenance switch

**Technical data:**

Supply: 400 V AC / 50 Hz

Output:

24 V DC, ripple < 50 mVss

- 230 V AC

- 400 V AC

Mode of operation

-Monitoring: Pulse operation

-Alarm / Ventilation

Type of protection: IP 54

Temperature range: -5 °C till +40 °C

Housing: Steel sheet, optional in housing with functional integrity

Colour: Light grey (~ RAL 7035)

**Scope of supply:**

Control panel in lockable surface-type housing, spare key, touch panel, without batteries (batteries must be ordered separately)

Brand: D+H Mechatronic AG

Type: CPS-M1-MSE

***The D+H partner on site is at your disposal for design variants.***

[Planning Support](#)

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