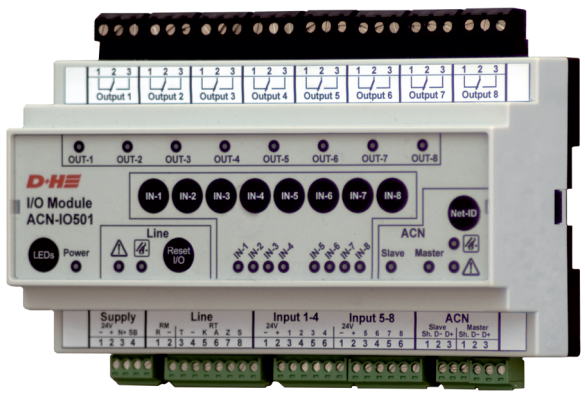
Original instructions

ACN-IO501



Intended Use

AdComNet products may only be installed and commissioned by installation companies with special training and certification from D+H Mechatronic. The installation instructions in the AdComNet manual must be observed!

- IO module for linking external service equipment, e.g. fire detector system, building services management system or central controls, to AdComNet
- 8 freely configurable inputs for evaluating switch contacts or 24 V signals (alarm, fault, ventilation button)
- 8 freely configurable outputs with potential-free change-over contacts (alarm, fault, Open message)
- 1 line for connecting max. 8 SHEV buttons and 14 fire detectors (only detectors approved by D+H may be used)
- Display of the input and output statuses using LEDs
- Output statuses are preserved through the use of bistable relays, even in the event of a power failure
- The SHEV control system provides the power supply (max. 2 ACN-IO501 per control system)
- Current consumption of max. 250 mA (only approximately 12.5 mA in the event of a power failure)
- Additional battery capacity of 1,2 Ah is required
- The module is mounted on a top-hat rail in a control system with a housing extension or its own housing (dimensions WxHxD: 156 x 86 x 58 mm)

Safety notes

24 VDC operating voltage!
Do not directly connect to the power supply!
- **May only be connected by D+H-authorised technicians!**
- Only use in dry spaces
- Only suitable for interior assembly

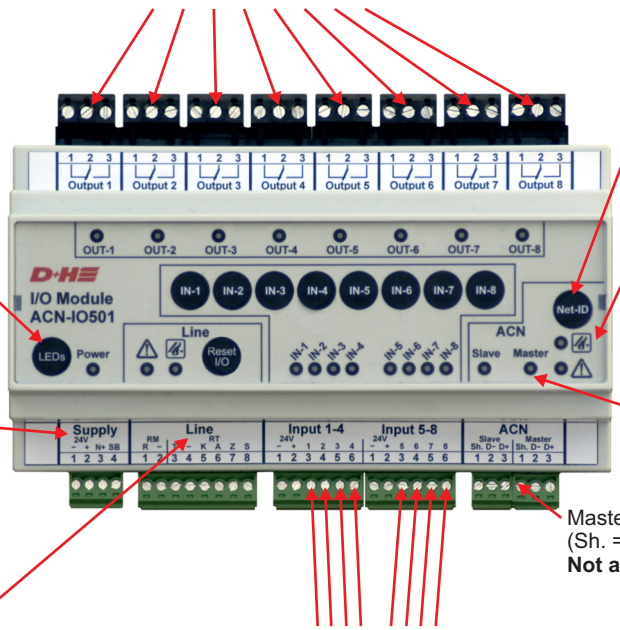
Scope of supply

1x ACN-IO501 IO module
2x EM-L01 end module
2x 110 Ω terminating resistors

8 Configurable outputs
- Potential-free change-over contacts
- Functions: alarm, various fault types, Open message
- Configurations: failsafe status (= predefined status in the event of a power failure)
- Display of the status via LED

"LEDs" button
- For testing the LED display.
- In a power failure, the LED displays can only be switched on with this button.

Supply
- 24 V DC ±10%
  Ripple < 2 Vss = < 3%
- Input N+ for power failure detection and SB for battery fault of the external power supply
- Can be partially supplied by the SHEV control system (AdComNet ready)



AdComNet connection
Pushing this will display the Net ID of the ACN-IO501 in the AdComNet configurator.

The LEDs indicate whether a fault and/or an alarm has been triggered in the control system or via the bus.
If always on = Triggered locally by the control system
Blinking = Triggered via the BUS

= "Alarm" = "Fault"

Bus traffic display for the master and slave side.
Blinks when in operation.

Master and slave connection for the bus line (Sh. = splicing point for the shielding.
Not an earthing point!)

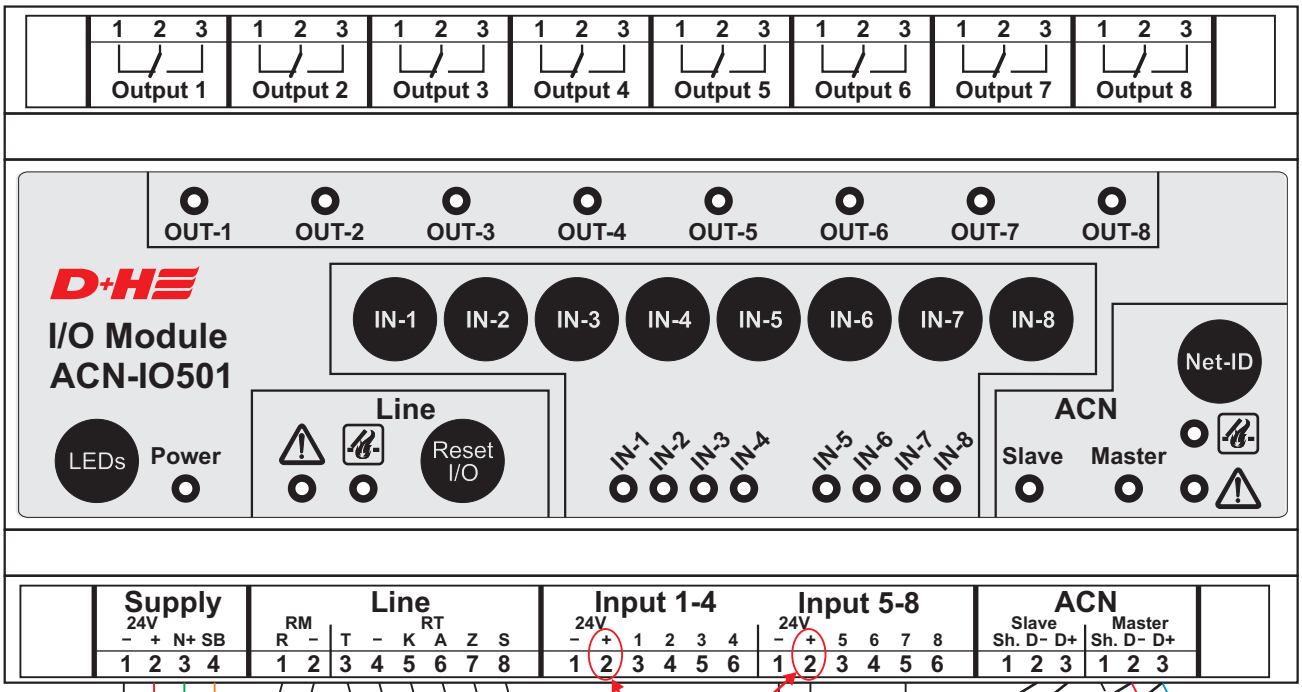
Line
- Corresponds to a line of the SHEV control system
- New end module "EM-L 01" for active line monitoring
- Line can be reset locally or turned off by holding it down for a prolonged period
- Alarm and fault display

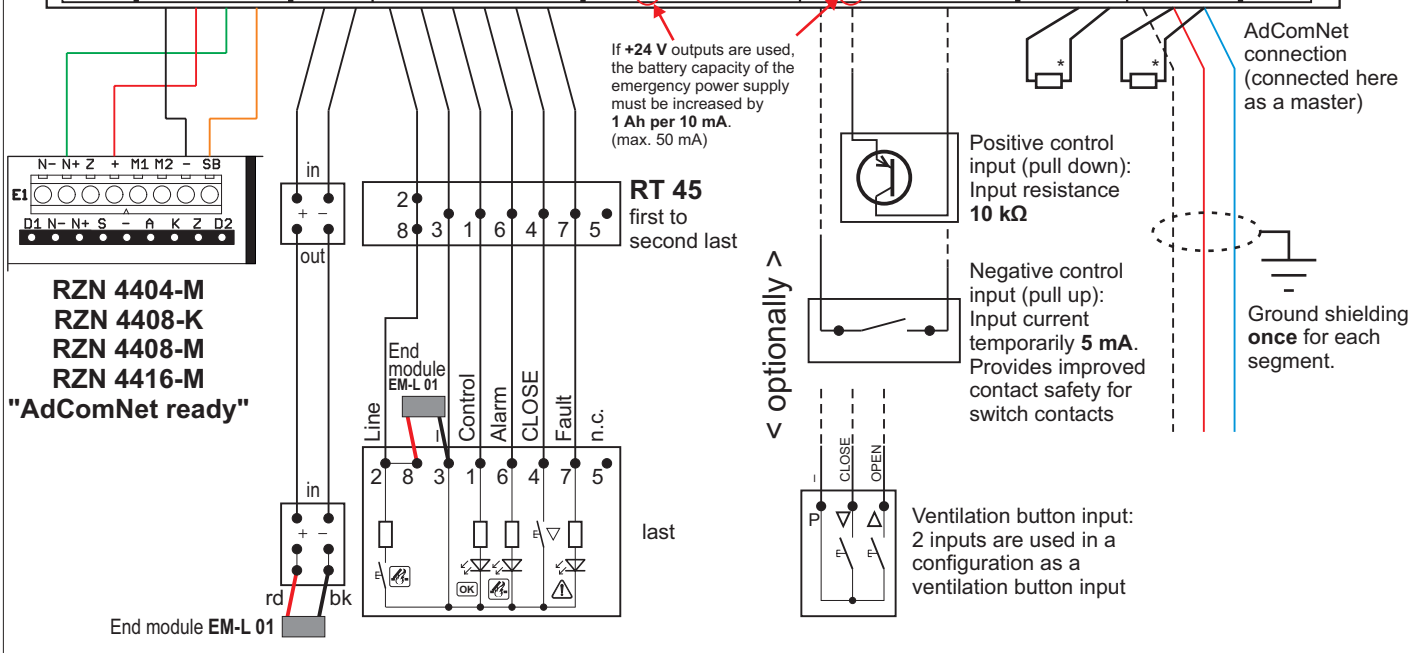
8 configurable inputs
- Evaluation of change-over contacts or 12/24 V (11 … 30 V) signals
- Functions: Alarm, fault, ventilation button
- Configurations: Pull-up / pull-down, invert
- Display of the status via LED
- Button for testing the input statuses

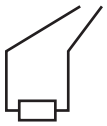
Connection

Contact load capacity: max. 230 VAC / 3 A and/or 30 VDC / 3 A (ohmic load)

Due to the isolation distances, the outputs may only operated with **low voltage or mains voltage (not mixed!)**.
The outputs are dedicated signal outputs and are **not suitable for direct switching of drives!**







* Termination:
Each segment must be terminated with **2 resistors (110 Ω)**.
The resistors must be connected **as far as possible from one another**.
Connections, which are not used, must also be terminated!

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