



The Analogue Actuator Module expands the Analogue Actuator AA/S 4.1 by four analogue outputs. The device converts measured data received via the KNX to analogue output signals. The analogue outputs can be used other as current or voltage outputs with adjustable output signals.

The Analogue Actuator Module is a DIN rail device for installation in the distribution board. For operation the 24 V AC power supply can be carried out by AA/S 4.1.

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### Technical Data

<b>Power supply</b>	Operating voltage	24 V AC $\pm$ 10 %
	Current consumption	Max. 120 mA
	Current consumption on system connector	Max. 6 mA
<b>Outputs</b>	4 analogue outputs	Outputs A5...A8
	Signal type	0...1 V DC 0...20 mA 0...10 V DC 4...20 mA depending on parameterisation
	Output signal load	Voltage signal: $\geq$ 1 k $\Omega$ Current signal: $\leq$ 500 $\Omega$
<b>Output current</b>	Voltage signal	Max. 10 mA per channel
	Current signal	Max. 20 mA per channel
<b>Operating and display elements</b>	Device status display	Status LED (red)
	Output signal A5...A8 display	Status LED (yellow)
<b>Connections</b>	Analogue outputs A5...A8	2 screw terminals per output/terminal
	24 V AC power supply	Conductor cross-section: single-core: 0.50 – 4.0 mm <sup>2</sup> stranded: 0.34 – 4.0 mm <sup>2</sup> stranded: 0.14 – 2.5 mm <sup>2</sup>
	System connector, 6-pole	Connection to analogue actuator
<b>Enclosure</b>	IP 20, EN 60 529	
<b>Ambient temperature range</b>	Operation	– 5 °C ... + 45 °C
	Storage	– 25 °C ... + 70 °C
	Transport	– 25 °C ... + 70 °C
<b>Humidity</b>	Ambient/Storage/Transport	Max. 93 % relative humidity, no condensation
<b>Design</b>	Modular installation device	
<b>Housing, colour</b>	Plastic housing, grey	
<b>Installation</b>	On 35 mm mounting rail	to DIN EN 50 022
<b>Dimensions</b>	90 x 72 x 69.5 mm (H x W x D)	
<b>Mounting depth / width</b>	70 mm / 4 modules at 18 mm	
<b>Weight</b>	approx. 150 g	
<b>Mounting position</b>	as required	
<b>Approvals</b>	KNX	
<b>CE mark</b>	in accordance with the EMC guideline and low voltage guideline	

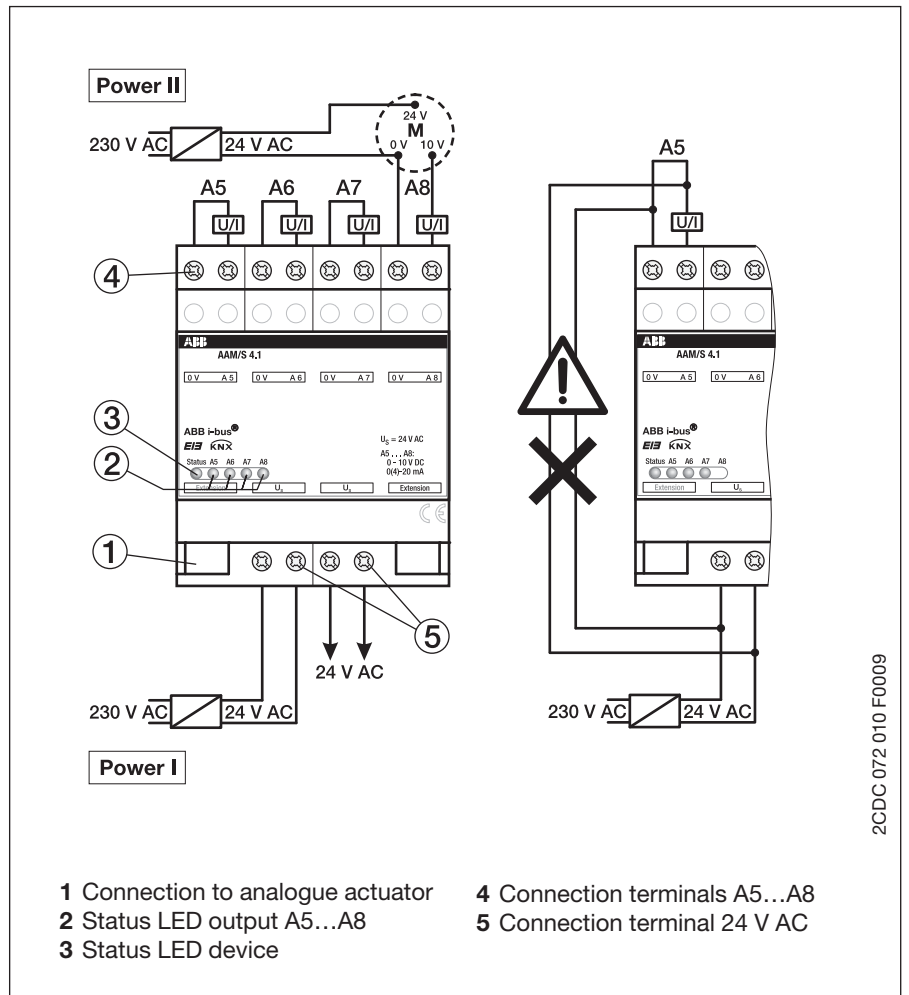
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**Note:**

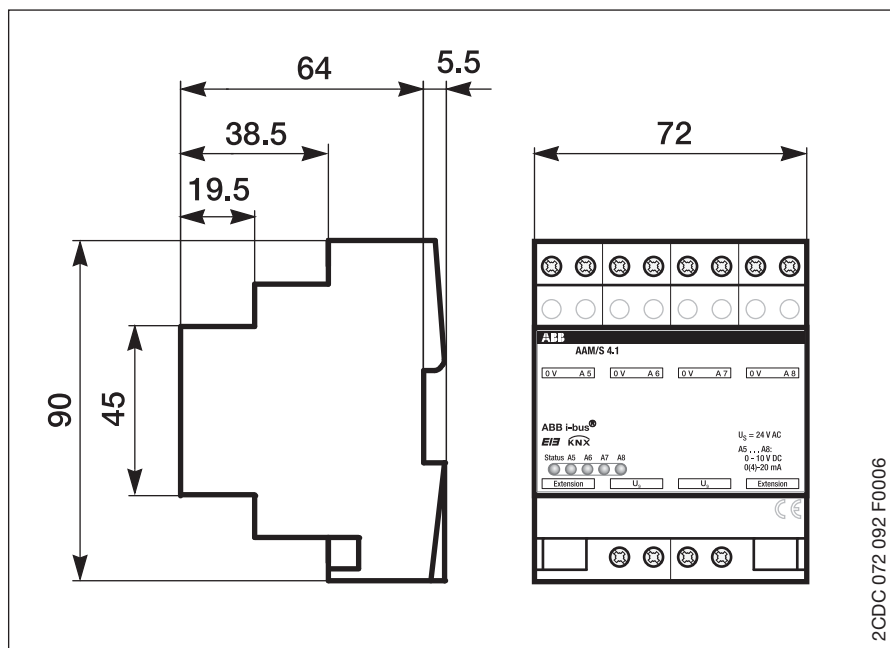
Programming of the Analogue Actuator Module AAM/S 4.1 is implemented via the application of the Analogue Actuator AA/S 4.1. The programming requires Software Tool ETS2 V1.3 or higher. If ETS3 is used a ".VD3" type file must be imported. The application program is available in the ETS2 / ETS3 at ABB/output/analogue output.

Detailed information about the application can be found in the product manual for the „Analogue Actuator AA/S 4.1, Analogue Actuator Module AAM/S 4.1“. This manual can be free downloaded under [www.ABB.de/KNX](http://www.ABB.de/KNX).

**Wiring diagram**



## Dimension drawings



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## Installation

The connection to the Analogue Actuator will be carried out via a 6-pole system connector (supplied with the Analogue Actuator Module).

A maximum of one Analogue Actuator Module can be connected.

An Analogue Actuator Module can be replaced while the system is in operation (disconnect voltage supply from module!). After the replacement, the Analogue Actuator makes a reset after approx. 25 s. This action reinitialises all outputs of the Analogue Actuator and resets them to their original state.

Removal or addition of modules without adapting the project and subsequent downloading into the Analogue Actuator is not permitted as this will result in system malfunctions.



- The 24 V AC supply voltage must not be used for supplying further components (e.g. motor drives for ventilation flaps) which are controlled by the analogue outputs (risk of irreparable damage!).
- Do not connect electronic ballast's or electronic transformers with 1–10 V control input to the outputs!
- Do not connect external voltages to the outputs. Connected components must ensure safe separation from other voltages.
- The 0 V terminals must not be connected with the terminals of the same designation of an Analogue Actuator (risk of irreparable damage!).
- The 0 V terminals of outputs A5...A8 are internally connected.

Notes

