

ABB i-bus® KNX

Analogue Actuator, 4-fold, MDRC, 0-10 V, 0-20 mA
AA/S 4.1.2, 2CDG110202R0011



Product description

The Analogue Actuator converts telegrams received via KNX into analog output signals. The device has four outputs. The analog outputs can be used independently of one another as current or voltage outputs with adjustable output signals.

The Analogue Actuator is a modular installation device for installation in the distribution board. It connects to the KNX via a bus connection terminal.

The device requires an external 100...240 V AC auxiliary voltage. The device is parameterized and programmed using ETS.

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Technical data

Supply	Auxiliary voltage	100...240 V AC +10 %/-15 %, 50/60 Hz
	Power supply	Via ABB i-bus KNX
	KNX current consumption	Max. 12 mA
	KNX power loss	Max. 250 mW
	Power loss P	0.8 W
Analog outputs	4, A...D	
	Voltage signals	0...1 V DC
		0...5 V DC
		0...10 V DC
		1...10 V DC
	Current signal	0...20 mA DC
4...20 mA DC		
Output signal load	Depending on parameterization	
	Voltage signal:	≥ 1 kohm
Dielectric strength		
	34 V DC	34 V DC
Output current	Voltage signal	Max. 10 mA per channel
	For 1...10 V output and ballasts	Max. 1 mA per channel
	Current signal	Max. 20 mA per channel
Operating and display elements	<i>Programming</i> button/LED (red)	For assignment of the physical address
	A...D <i>status</i> LED (yellow)	Channel A...D status display
	KNX <i>status</i> LED (green)	KNX status display
	<i>Power</i> LED (green)	Auxiliary voltage display
Connections	KNX connection	Bus connection terminal, screwless
	Analog outputs A...D	Screw terminals
		0.2...4,0 mm ² rigid/flexible with/without ferrules
		0.2...4.0 mm ² solid-core
Tightening torque	Max. 0.6 Nm	
Degree of protection	IP 20	To DIN EN 60 529
Protection class	II	To DIN EN 61 140
Isolation category	Overvoltage category	III to DIN EN 60 664-1
	Pollution degree	II to DIN EN 60 664-1
KNX safety voltage	SELV 24 VDC	

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Temperature range	Operation	-5 °C...+45 °C
	Storage	-25 °C...+55 °C
	Transport	-25 °C...+70 °C
Ambient conditions	Maximum air humidity	93%, no condensation allowed
	Atmospheric pressure	Atmosphere up to 2,000 m
Design	Modular installation device (MDRC)	Modular installation device, Pro M
	Dimensions	90 x 70 x 64.5 mm (H x W x D)
	Mounting width in space units	4x 18 mm modules
	Mounting depth	70 mm
Mounting	On 35 mm mounting rail	To DIN EN 60 715
Mounting position	Any	
Weight	0,17 kg	
Housing/color	Plastic housing, gray	
Approvals	KNX to EN 50 090-1, -2	Certification
CE mark	In accordance with the EMC guideline and low voltage guideline	

Device type	Application	Max. number of group objects	Max. number of group addresses	Max. number of assignments
AA/S 4.1.2	Analog output 4f/*	57	254	254

* ... = Current version number of the application. **Please refer to the software information on our website for this purpose.**

Note

For a detailed description of the application see „*Analogue Actuator AA/S 4.1.2, AA/A 2.1.2*“ available free-of-charge at www.abb.com/knx.

ETS and the current version of the device application are required for programming.

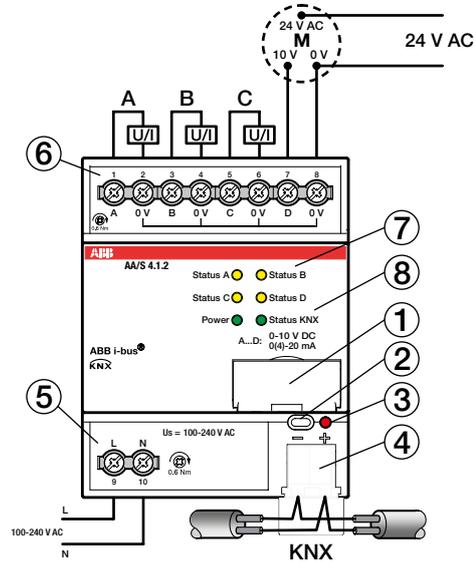
The current application can be found with the respective software information for download on the Internet at www.abb.com/knx. After import into ETS, the application appears in the *Catalogs* window under *Manufacturers/ABB/Output/Analog Output*.

The device does not support the locking function of a KNX device in ETS. If you use a *BCU code* to inhibit access to all the project devices, this has no effect on this device. Data can still be read and programmed.

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Connection schematic

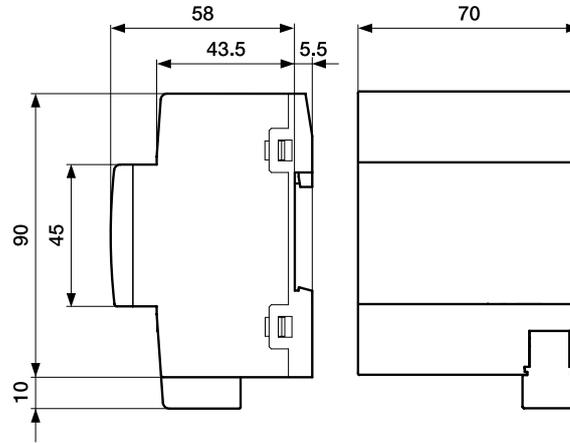


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- 1 Label carrier
- 2 *Programming* button
- 3 *Programming* LED (red)
- 4 Bus connection terminal
- 5 Power supply connection U_s
- 6 Analog output A
- 7 Channels A...D *status* LED (yellow)
- 8 Device *status* LED (green)

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Dimension drawing



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