

CAN Input FAA4 4x Analog Output

Type of Product: DV-CANFAA4-01

1 Introduction

Field bus modules FAA4 are analog output modules with four analog 0V...10V outputs.

The output values are set via the CAN Bus.

This module can be combined with a input module of type DV-CANFAE4-01 by connecting them via CAN Bus. The output voltage of this analog output module will be set according to the input value of the analog input module with the same CAN Bus address. No additional control unit is necessary.

Alternatively the CAN Bus modules can act as Output extension for computers with CAN Bus. For example a Touchpanel Computer TP1000 can be used to set the output values.

You can use the software libraries from Wilke Technology to shorten the software development time.

2 Applications

- Analog value transmission over long distances via CAN Bus.
- Setting Valve Positions
- Controlling electrical vents
- Analog Outputs for TP1000 Touchpanel Computers
- Analog Outputs for TDR CPU Modules



3 Features

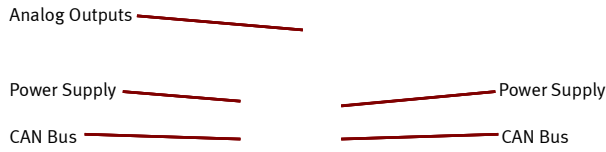
- 4 Analog Outputs 0V...10V
- CAN 2.0B passive Interface
- 20V...28V Supply Voltage
- 2 Status LEDs

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Technical Documentation



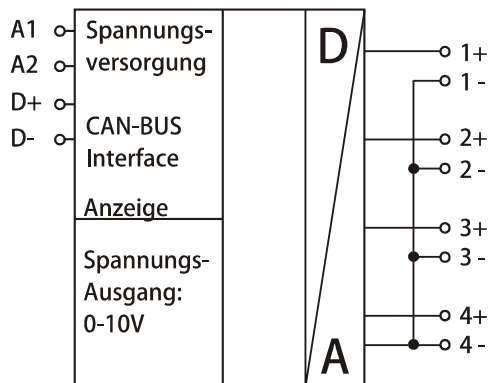
6.2 CAN Bus Connection

The CAN Bus is connected to D+ and D- at the front terminal block. Connect the CAN-High signal to D+ and the CAN Low signal to D-.

6 Connectors

6.1 Analog Outputs

The Output Signals are available at the Terminals 1+, 2+, 3+ and 4+. The negative poles 1-, 2-, 3- and 4- are connected together internally.

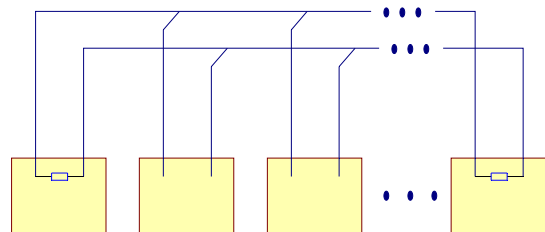


The terminal block at the left side is looped through to the terminal block of the right side.

The Terminal block can be exchanged with a bridge element to connect a second module that is placed next to this module.

bridge element

We recommend to use a bus cable with a characteristic wave impedance of 120 Ω.



Note: The line should be terminated at both ends in its characteristic impedance. Stub lengths off the main line should be kept as short as possible.

You have to connect GND to each module if a separate power supply is used!

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6.3 Power Supply

Connect the +pole of the power supply to A1 and the -pole to A2.

The terminal block at the left side is looped through to the terminal block of the right side.

The Terminal block can be exchanged with a bridge element to connect a second module that is placed next to this module.

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7 Technical Specification

7.1 Absolute maximum Ratings

beyond which permanent damage may occur

Power Supply Voltage V+	28V AC/DC
Maximum Current at Analog Outputs	5 mA
operation temperature range	-5°C...+55°C
storage temperature range	-20°C...+70°C

7.2 Electrical Specifications

Power Supply Voltage	20V...28V AC/DC
current consumption at AC supply at DC supply	90mA 32mA
Analog Output Resolution Error	10mV ± 1%
CAN Bus standard supported baud rates Maximum CAN Bus length at 20k bits/s required bus termination at both ends max. nodes	2.0B passive 20k bits/s, 50k bits/s 125k bits/s 500k bits/s 2500m 120Ω 112
Terminal Blocks supply and CAN Bus digital inputs	1.5mm ² 2.5mm ²

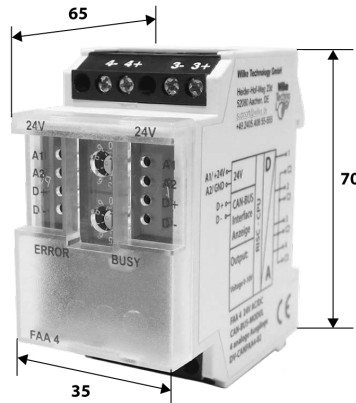
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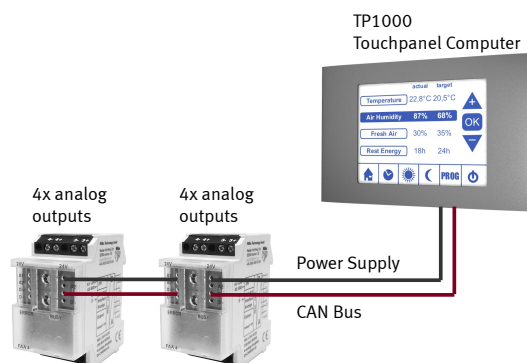
7.3 Mechanical Specifications

dimensions W x H x L	35mm x 70mm x 65mm
weight	84g
housing	IP40
terminal blocks	IP20



8 Application example

Touchpanel Computer TP1000 uses FAE4 as analog outputs



Touchpanel Software?

download software libraries at www.wilke.de or ask our support team: support@wilke.de

9 Document History

Document Version	Description
V001	first version