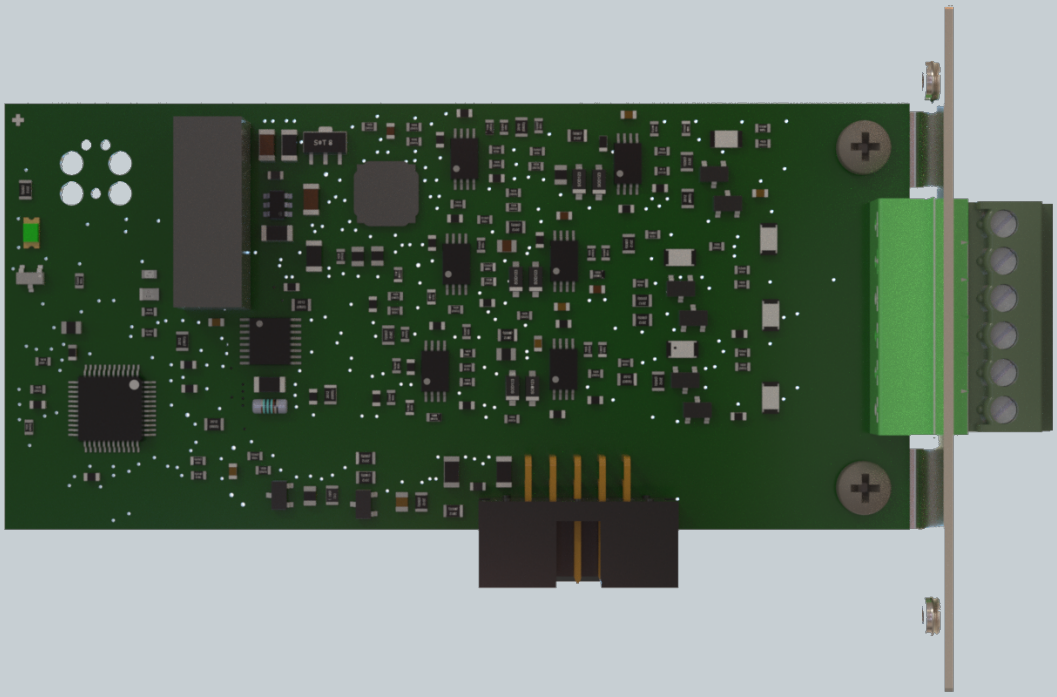


Technical Datasheet

MC10-AIO3

SCHAKO Group

1 Introduction

The extension module included in this document is suitable for the following product groups:

- Fume hood controller (e.g. FC400)
- Fume hood monitor (e.g. FM400)
- Volume flow controller (e.g. VAV400)

MC10 extension modules are manufacturer-specific and can only be used in the specified product groups. They can be replaced, removed, and added, but must be compatible with the respective device. This allows the device to support more functions than originally provided. The parameters can be checked and adjusted within the respective product group using a PC or laptop and the SCHNEIDER commissioning software PC4500.

Notice: Connecting the extension module

Always unplug the power cord or disconnect the device from the mains before inserting or removing the extension module.

W0022

Notice: Material damage due to electrostatic discharge

The electronics of the MC10-AIO3 can be damaged by electrostatic discharge. Avoid direct contact with components and circuit traces on the circuit boards. Before touching, perform a potential equalization by touching metallic surfaces. The surfaces must be grounded to ensure potential equalization.

W0048

2 Extension Module Type MC10-AIO3

Technical Data	
Power Supply	via the baseboard slot
Number of Outputs	3, galvanically isolated from the baseboard
Overvoltage and Reverse Polarity Protection	± 45 V DC
Wire Cross-Section (solid/flexible)	0,14 mm² to 1,5 mm²
Configuration Voltage output	
Voltage Range	0(2) V to 10 V DC ±2%, freely programmable
Resolution	12 Bit
Response time	< 20 ms
Maximum Current Load per Output	2 mA @ 5 kΩ
Configuration Current output	
Current Range	0(4) mA to 20 mA DC ±1,5%, freely programmable
Resolution	12 Bit
Response Time	< 20 ms
Maximum Voltage	10 V DC
Minimum Load Resistance	< 360 Ω
Configuration Voltage input	
Voltage input Range	0(2) V to 10 V DC
Resolution	12 Bit
Response Time	< 20 ms
Input Impedance	> 50 kΩ
Configuration Current input	
Current input Range	0(4) mA to 20 mA DC
Resolution	12 Bit
Response Time	< 20 ms
Burden	ca 260 Ω
Ordering Code	
MC10-AIO3	Extension module 3x AIN or AOUT (Voltage + Current)

Table 1: Technical Data MC10-AIO3

No.	Function	Meaning
1	Terminal X1	3x Analog input or output (Signal/GND)
2	MC10	Expansion Slot MC10
3	HB-LED	Operating status indicator

Table 2: Legend MC10-AIO3

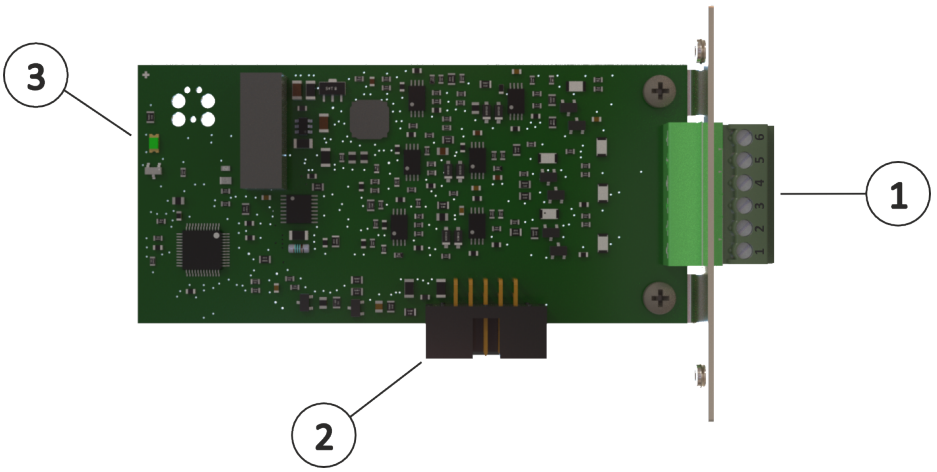
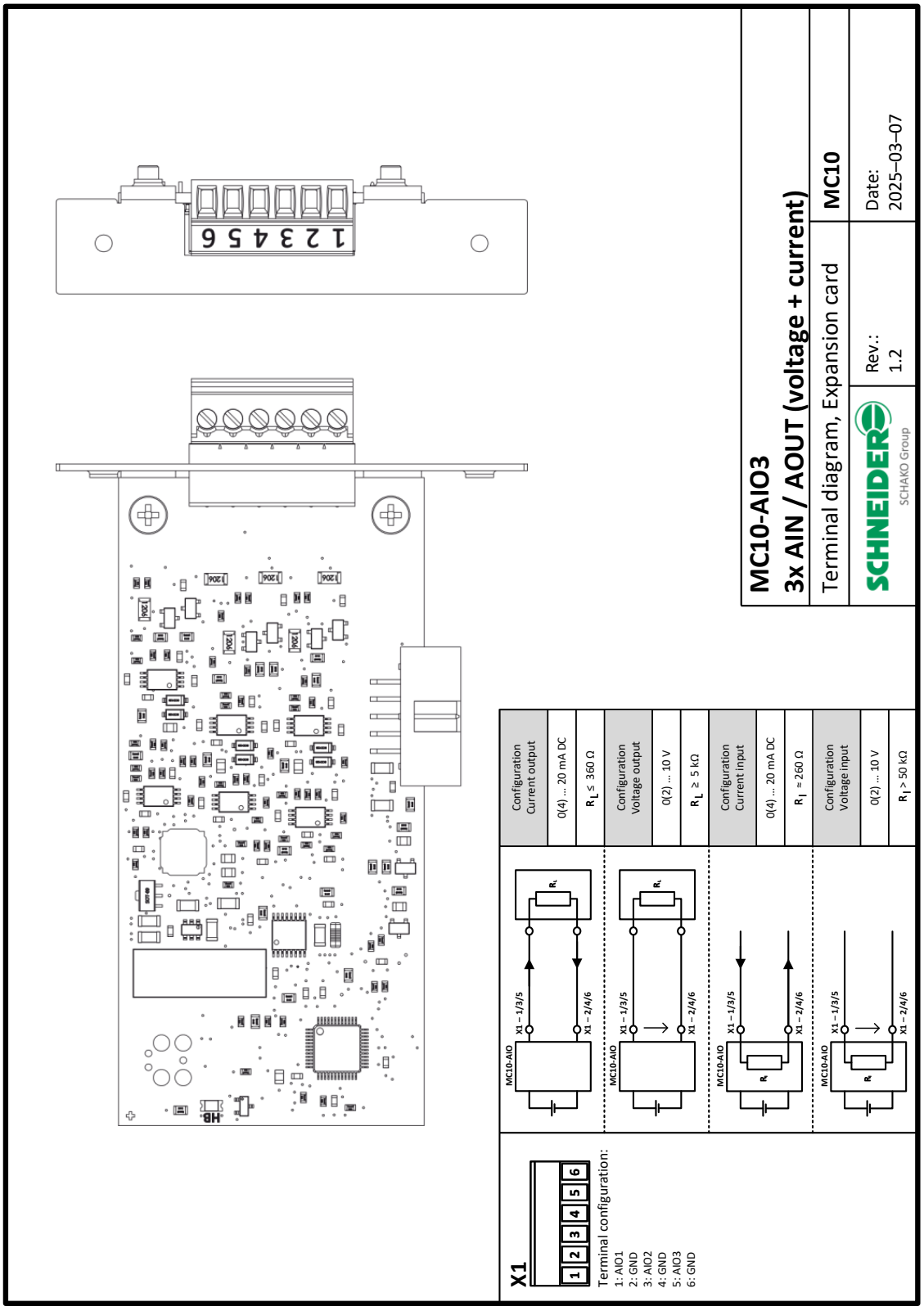


Figure 1: Overview MC10-AIO3

3 Terminal Diagram MC10-AIO3



The information and data contained in this documentation have been compiled to the best of our knowledge and in accordance with the current state of the art (subject to technical changes). The currently valid version applies. The proven properties of SCHNEIDER products are based on the use of the products recommended in this documentation. Diverging situations and individual cases are not taken into account, so that we cannot assume any warranty and liability.

As of Februar 2025
Version: 02/2025

Do you have any questions? We look forward to your message:

Tel. +49 6171 88479-0

info@schneider-elektronik.de