

Data sheet

ADU-C12

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P/N
11043513

EAN 4250184121985

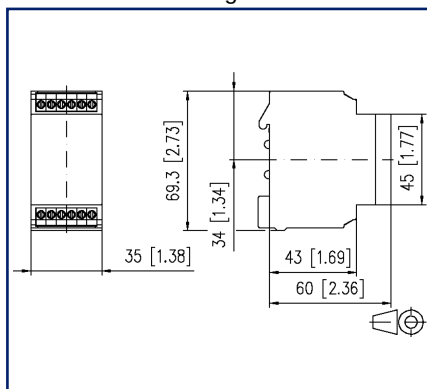
2026/09/23

Version: K

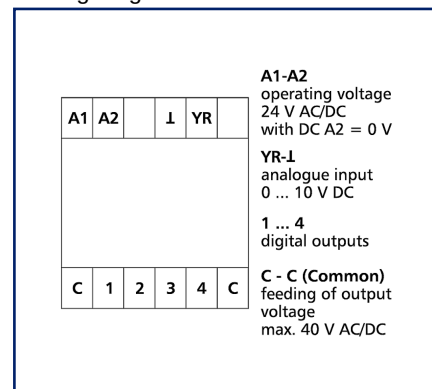
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

The analog/digital converter ADU-C12 processes input voltages from 0 to 7.5 V DC in 0.5 V steps. The digital outputs switch according to the applied input voltage. The outputs are updated every 1.5 seconds, and the switching state is signaled by means of an LED.

- Connection with screw type terminal blocks
- Switching states are indicated by means of LEDs

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Technical Data

Supply

Operating voltage	24 V AC/DC
Power consumption AC (max.)	50.2 mA
Power consumption DC (max.)	42 mA

Inputs

Power consumption	max. 0.5 mA
Scanning	0.5 V steps

Outputs

Power consumption	max. 100 mA
Indicator	yellow and green LED

Housing

Dimensions	
Dimension (W x H x D)	35 mm x 69.3 mm x 60 mm
Dimension (W x H x D)	1.378 in. x 2.728 in. x 2.362 in.
Weight	30 g
Mounting style	Standard rail TH35
Mounting position	any
Apposition	without distance
Connection type	Screw type terminal blocks

Terminal blocks

Wire cross section solid	0.34 mm ² - 2.5 mm ² / AWG 22-12
Wire cross section multi	0.25 mm ² - 2.5 mm ² / AWG 22-12
Wire cross section with wire ferrule	0.25 mm ² - 2.5 mm ² / AWG 22-12
Screw torque (max.)	0.5 Nm
Stripping length (min.)	8 mm

Material

Material - Housing	Polyamid 6.6 V0
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polycarbonat



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Technical Data

Protection category according to IEC 60529

Protection category - housing (acc. to IEC 60529)	IP40
Protection category - terminal blocks (acc. to IEC 60529)	IP20

Climatic Data

Operating

Temperature - Operating °C	-10 °C - 50 °C
Temperature - Operating °F	14 °F - 122 °F
Relative humidity	max. 85 % non-condensing

Storage

Temperature - Storage °C	-25 °C - 70 °C
Temperature - Storage °F	-13 °F - 158 °F

Power loss

Power loss (typical)	0.8 W
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Classifications

ETIM 7.0	EC000310
ETIM 8.0	EC000310
ETIM 9.0	EC000310
ETIM 10.0	EC000310

Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way.

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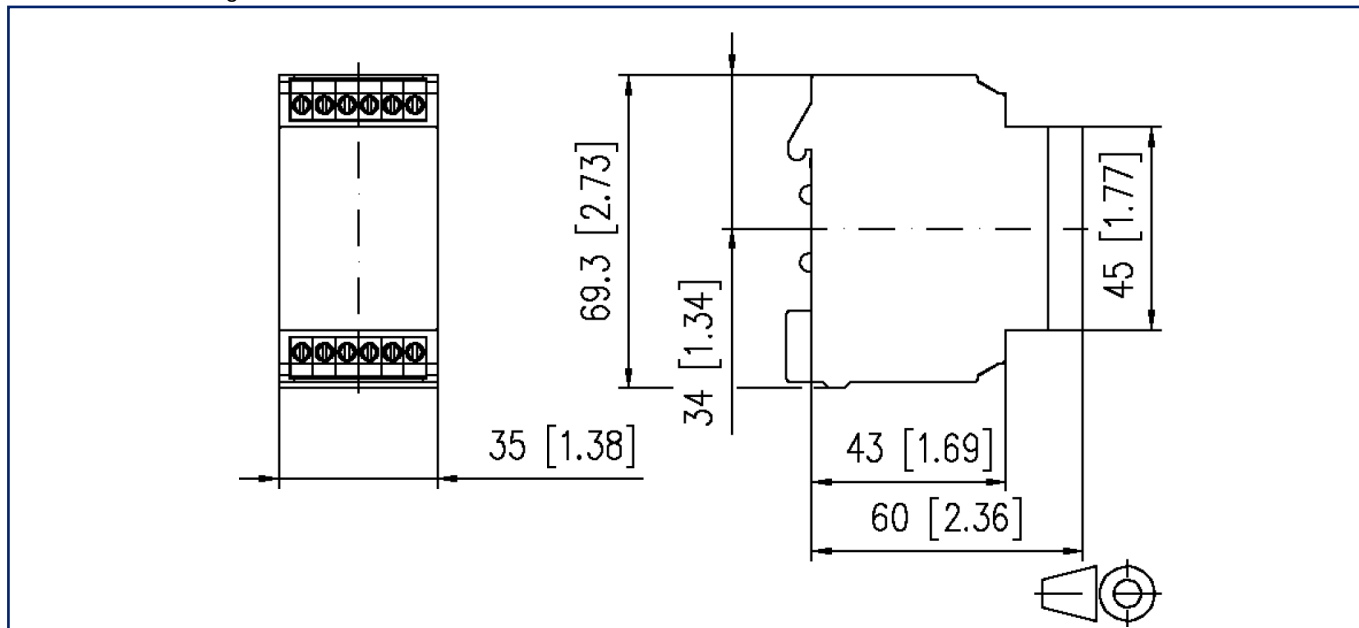
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Illustrations

Dimensional drawing



Wiring diagram

A1	A2		1	YR	
C	1	2	3	4	C

A1-A2
operating voltage
24 V AC/DC
with DC A2 = 0 V

YR-1
analogue input
0 ... 10 V DC

1 ... 4
digital outputs

C - C (Common)
feeding of output
voltage
max. 40 V AC/DC



Illustrations

Wiring diagram

Table of switching conditions

Input V DC	Outputs 1 2 3 4	Input V DC	Outputs 1 2 3 4
0.0 V	0 0 0 0	4.5 V	1 0 0 1
0.5 V	1 0 0 0	5.0 V	0 1 0 1
1.0 V	0 1 0 0	5.5 V	1 1 0 1
1.5 V	1 1 0 0	6.0 V	0 0 1 1
2.0 V	0 0 1 0	6.5 V	1 0 1 1
2.5 V	1 0 1 0	7.0 V	0 1 1 1
3.0 V	0 1 1 0	7.5 V	1 1 1 1
3.5 V	1 1 1 0	>7.5 V	1 1 1 1
4.0 V	0 0 0 1		

Circuit diagram

