

AD/DA converter

Inputs and outputs galvanically isolated

MAW

analog-digital converter

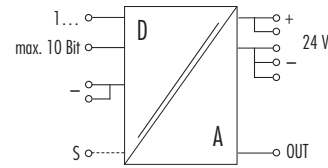
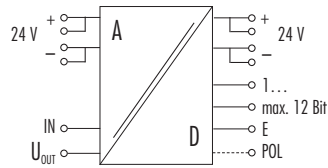


MDW

digital-analog converter



Circuit diagram



Ordering data

Digital	Analog	Art.-No.	Art.-No.
8 Bit	4...20 mA	44091	44073
8 Bit	0...10 V DC	44062	44067
10 Bit	0...10 V DC	44063	44068

Technical data

Supply voltage range	2 x 21...30 V DC, smoothed (with LED)	21...30 V DC, smoothed (with LED); ± 15 V DC at Art.-No. 44078
Supply current	60 mA (no load) in addition to max. 100 mA per digital output	100 mA no load, max. 150 mA (full load)
Input signal	type dependend	0...30 V DC log 1 ≥ 16 V, log 0 ≤ 6 V (with LED)
Input current	type dependend	max. 10 mA/Bit
Output current	100 mA/Bit (with LED)	max. 40 mA at 0...10 V DC; max. 20 mA at 0...20 mA, 4...20 mA
Tolerance	± 1 LSB	± 1 %
Converter cycle time	80 ms, at 6 Bit adjustable 2.5/150 ms	—
Release input E	log 1 ≥ 16 V, log 0 ≤ 6 V	
Test isolation voltage	2.5 kV AC	
Temperature range	0...+50 °C	
Mounting method	DIN-rail mounting to EN 60715	
Dimension	H x W x D	86 x 90 x 65 mm

Description

The analog-digital converter from Murrelektronik changes analog input signals into a digital format. The inputs and outputs are isolated. On modules with voltage inputs, it is possible to set the maximum input signal using a trimmer. The output "POL" indicates the polarity. A voltage output U_{OUT} 15 V/20 mA (minimal ripple) can be used as a power supply for the analog output device. The hold input E will sample and hold the analog value. When E is set to HIGH the outputs will represent the last measured value. When E is set to low the converter will run again.

The Murrelektronik digital-analog converter changes digital input signals into an analog output. The inputs and outputs are isolated. The voltage output version has the facility of adjustment to the output signal to a maximum of supply voltage minus 2 V. The module therefore needs a supply of ± 15 V. The outputs are short-circuit protected.

Notes

DIN-rail mounting to EN 60715