

# Energy Management

## Compact Transducer for DC Measurements

### Type CVT-DIN AV2/AV6

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- For DC current/voltage measurement
- Field adjustment capability
- For DIN-rail mounting
- Degree of protection: IP 50

## Product Description

Compact transducer for DC current/voltage measurements with field adjustment capability.

The housing is for DIN-rail mounting and ensures a degree of protection of IP 50.

## Ordering Key

**CVT-DIN AV6DD01X**

Model \_\_\_\_\_  
 Range code \_\_\_\_\_  
 Measurement \_\_\_\_\_  
 Power supply \_\_\_\_\_  
 Setpoints \_\_\_\_\_  
 Rated output \_\_\_\_\_  
 Calibration \_\_\_\_\_

## Type Selection

Range code	Power supply	Rated output	Calibration
<b>AV2:</b> 10 VDC - 60 mVDC (max. 12 VDC - 72 mV)	<b>A:</b> 24 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	<b>1:</b> Analogue output 0 to 20 mA (standard)	<b>X:</b> Standard calibration
<b>AV6:</b> 200 VDC - 1 ADC (max. 240 VDC - 1.2 ADC)	<b>B:</b> 48 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	<b>2:</b> Analogue output 4 to 20 mA (standard)	<b>Y:</b> Special calibration, use "Y" followed by requested value
	<b>C:</b> 115 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	<b>3:</b> Analogue output 0 to 10 VDC <sup>1)</sup>	
	<b>D:</b> 230 VAC, -15% +10%, 50/60 Hz (standard)	<b>4:</b> Analogue output 0 to ±1 VDC <sup>1)</sup>	

<sup>1)</sup> On request

## Input Specifications

<b>Accuracy</b> (@ 25°C ± 5°C, R.H. ≤ 60%)	± 0.5% f.s., (0.1 In/Un to 1 In/Un)
Additional errors	The given accuracy already includes: power supply, output load influences
Humidity	< 0.3%, 60% to 90% R.H.
Magnetic field	< 0.5%, @400 A/m
<b>Ripple</b>	≤ 1% according to IEC 60688-1 and EN 60688-1
<b>Rated input</b> AV2	60 mV (imp. 10 kΩ)/ 10 VDC (imp. 1.5 MΩ)
AV6	1 A (1 V internal shunt/imp. 1 Ω) 200 VDC (imp. 1.6 MΩ)
<b>Overload protection</b> Cont.: Current	1.2 x rated input
Voltage	1.2 x rated input
For 1 s: Current	20 x rated input
Voltage	2 x rated input

## Output Specifications

<b>Range/load</b> 0 to 20 mA 4 to 20 mA 0 to 10 V 0 to ±1 V	Load: ≤ 500 Ω Load: ≤ 500 Ω Load: ≥ 10 kΩ Load: ≥ 10 kΩ
<b>Adjustment</b>	Easy field adjustment from 50 to 130% of the I/U inputs which can be modified without any calibrator being requested
<b>Response time</b>	≤ 300 ms
<b>Temperature drift</b>	200 ppm/°C

## Supply Specifications

<b>AC supply</b>	230 VAC, -15% +10%, 50/60 Hz (standard) 24 VAC, 48 VAC, 115 VAC, -15% +10%, 50/60 Hz (on request)
<b>Power consumption</b>	≤ 5 VA

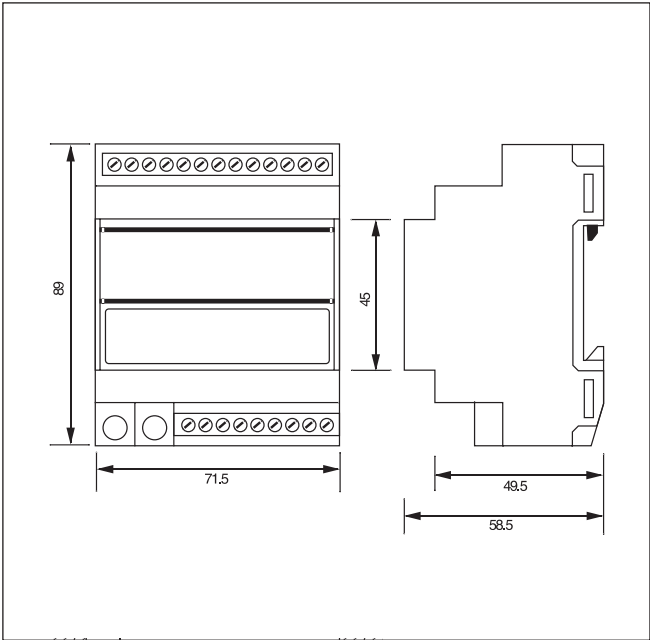


General Specifications

Warm-up time	15 minutes
Operating temperature	0 to 50°C (32 to 122°F) (R.H. < 90% non-condensing)
Storage temperature	-10 to 60°C (14 to 140°F) (R.H. < 90% non-condensing)
Insulation reference voltage	300 V <sub>rms</sub> to ground
Insulation	2000 V <sub>rms</sub> between output and measuring input, output and supply input. 4000 V <sub>rms</sub> between input/output and ground
Dielectric strength	4000 V <sub>rms</sub> for 1 minute
Noise rejection CMRR	≥ 80 dB, 48 to 62 Hz

EMC	EN 50081-1, EN 50082-1
Safety standards	Safety requirements: Product requirements:
Connector	Screw-type, max. 2.5 mm² wire
Housing	4-DIN modules, 58.5 x 89 x 71.5 mm
Dimensions	ABS, self-extinguishing: UL 94 V-0
Material	
Degree of protection	IP 50
Weight	300 g approx. (packing included)
Approval	CE

Dimensions



Connections

