# Energy Management Compact Transducer for AC Measurements Type CVT-DIN AV1/AV4/AV5





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

#### **Product Description**

current/voltage measurements mounting and ensures a

Compact transducer for AC ity. The housing is for DIN-rail with field adjustment capabil- degree of protection of IP 50.

### **Ordering Key**

CVT-DIN AV5AD01X

Model	
Range code ———	
Measurement ———	
Power supply ———	
Setpoints —	
Rated output ———	
Calibration ————	Control of the Contro

### **Type Selection**

Rang	e code	Powe	er supply	Rate	d output	Calib	oration
AV1:	100 VAC - 1 AAC (max. 120 VAC - 1.2 A)	A:	24 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	1:	Analogue output 0 to 20 mA (standard)	X: Y:	Standard calibration Special calibration,
AV4:	100 VAC - 5 AAC (max. 120 VAC - 6 A)	B:	48 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	2:	Analogue output 4 to 20 mADC 1)		use "Y" followed by requested value
AV5:	500 VAC - 5 AAC (max.600 VAC - 6 A)	C:	115 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	3:	Analogue output 0 to 10 VDC 1)		
		D:	230 VAC, -15% +10%, 50/60 Hz (standard)	4:	Analogue output 0 to ±1 VDC 1)	1) On	request

### **Input Specifications**

<u> </u>			
Accuracy (@ 25°C ± 5°C, R.H. ≤ 60%)  Additional errors:  Humidity Input frequency Magnetic field	± 0.5% f.s., (0.1 In/Un to 1 In/Un) The given accuracy already includes: frequency, power supply, output load influences < 0.3%, 60% to 90% R.H. < 0.4%, 62 to 400 Hz < 0.5%, @ 400 A/m	AC frequency range Overload protection Cont.: Current: Voltage: For 1 s: Current: Voltage:	1.2 x rated input 1.2 x rated input 20 x rated input 2 x rated input 2 x rated input
Ripple	≤ 1% according to IEC 60688-1 and EN 60688-1		W.DZSC.COM
Rated input AV1:	1 A (1 V internal shunt/1 Ω imp)/ 100 VAC (200 kΩ impedance) 5 A (250 mV internal shunt/		M. M. Ass.
AV5:	$0.05\Omega$ impedance) / 100 VAC (200 k $\Omega$ imp.) 5 A (250 mV internal shunt/ $0.05\Omega$ impedance) / 500 VAC (1 M $\Omega$ imp.)		



### **General Specifications**

15 minutes
0 to 50°C (32 to 122°F) (R.H. < 90% non-condensing)
-10 to 60°C (14 to 140°F) (R.H. < 90% non-condensing)
300 V <sub>rms</sub> to ground
2000 V <sub>rms</sub> between output and measuring input, output and supply input. 4000 V <sub>rms</sub> between input/output and ground
4000 V <sub>rms</sub> for 1 minute
≥ 80 dB, 48 to 62 Hz EN 50081-1, EN 50082-1

Safety standards Safety requirements Product requirements	IEC 601010-1, EN 61010-1 IEC 60688-1, EN 60688-1
Connector	Screw-type, max. 2.5 mm <sup>2</sup> wires
Housing Dimensions	4-DIN modules,
Material	58.5 x 89 x 71.5 mm ABS, self-extinguishing: UL 94 V-0
Degree of protection	IP 50
Weight	300 g approx. (packing included)
Approval	CE

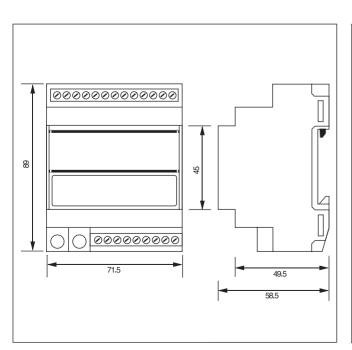
# **Output Specifications**

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

# **Supply Specifications**

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

#### **Dimensions**



#### **Connections**

