

Panel Meters and Controllers

Compact Transducer for DC Measurements

Type CVT-DIN AV2/AV6



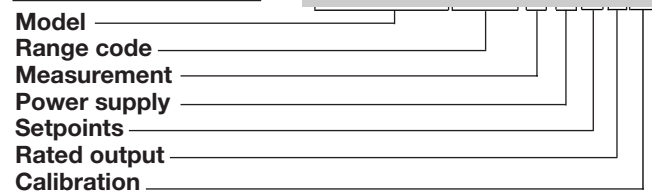
- For DC current/voltage measurement
- Field adjustment capability
- For DIN-rail mounting
- Degree of protection: IP 50

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



Type Selection

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

Accuracy (@ 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
Ripple	≤ 1% according to IEC 60688-1 and EN 60 688-1
Rated input	
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)
Overload protection	
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

Range/load	
0 to 20 mA	Load: ≤ 500 Ω
4 to 20 mA	Load: ≤ 500 Ω
0 to 10 V	Load: ≥ 10 kΩ
0 to ±1 V	Load: ≥ 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
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

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 _{rms} to ground
Insulation	2000 V _{rms} between output and measuring input, output and supply input. 4000 V _{rms} between input/output and ground
Dielectric strength	4000 V _{rms} for 1 minute
Noise rejection CMRR	≥ 80 dB, 48 to 62 Hz
EMC	EN 50 081-1, EN 50 082-1
Safety standards Safety requirements: Product requirements:	IEC 601010-1, EN 61 010-1 IEC 60688-1, EN 60 688-1
Connector	Screw-type, max. 2.5 mm ² wire
Housing Dimensions Material	4-DIN modules, 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

Dimensions

