Panel Meters and Controllers
AC Ammeter or Voltmeter
Type DI3-72 AV1/AV5



- **3-dgt µP-based indicator for AC currents or voltages**
- **Selectable CT/VT primary range**
- **Panel mounting**
- **72 x 72 mm**
- **Degree of protection (front): IP 50 (IP 65 on request)**

Product Description

3-dgt µP-based meter with double input for AC currents or voltages. With 20 selectable primary CT/VT ranges. The housing is for panel mounting and ensures a degree of protection (front) of IP 50 (IP 65 on request).

Ordering Key

DI3-72AV5AD0XX

- **Model**
- **Range code**
- **Measurement**
- **Power supply**
- **Setpoints**
- **Options**

Type Selection

Range code

AV1:	1 A/100 V Standard current/voltage	See Range Table
AV5:	5 A/500 V Standard current/voltage	

Power supply

A:	24 VAC, -15% +10%, 50/60 Hz [1]
B:	48 VAC, -15% +10%, 50/60 Hz [1]
C:	115 VAC, -15% +10%, 50/60 Hz [1]
D:	230 VAC, -15% +10%, 50/60 Hz (standard)

Options

XX:	None (standard)
EX:	Degree of protection IP 65

[1] Power supply on request

Input Specifications

Rated input	5A/500 VAC, 45 to 400 Hz (1A/100 VAC on request)
Overload protection	
Cont. Current:	1.2 x rated input
Voltage:	1.2 x rated input
For 1 s Current:	5 x rated input
Voltage:	2 x rated input
Accuracy (@ 25°C ± 5°C, R.H. ≤ 60%)	± 0.5% f.s., ± 1 dgt
Temperature drift	± 350 ppm/°C
Display	7-segment LED, h 14.2 mm, 3 digits
Sampling rate	1 time/s
Indication	
Max.	999
Min.	000
500 VAC range	Scale suppression up to 5% f.s.
Other ranges	Scale suppression up to 3% f.s.
Over range	EEE
Input range selection	DIP-switch selectable
Decimal point position	DIP-switch selectable

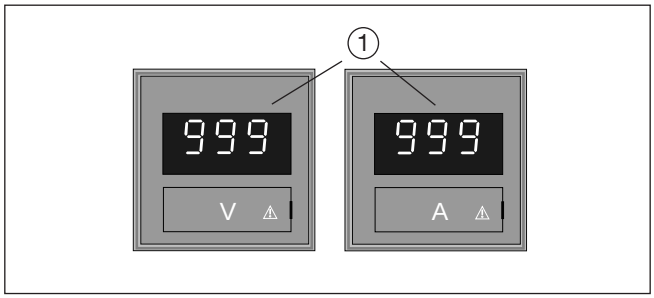
General Specifications

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
Dielectric strength	4000 V_{rms} for 1 minute
Noise rejection	
CMRR	100 dB, 40 to 60 Hz.
EMC	IEC 60801-2, IEC 60801-3, IEC 60801-4 (level 2), EN 50 081-1, EN 50 082-1.
Safety standards	EN 61 010-1, IEC 61010-1, VDE 0411
Connector	Screw-type
Housing	
Dimensions	72 x 72 x 75 mm
Material	ABS, self-extinguishing: UL 94 V-0
Degree of protection	Front: IP 50 (IP 65 on request)
Weight	Approx 250 g
Approvals	CE, CSA

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	3.2 VA

Front Panel Description



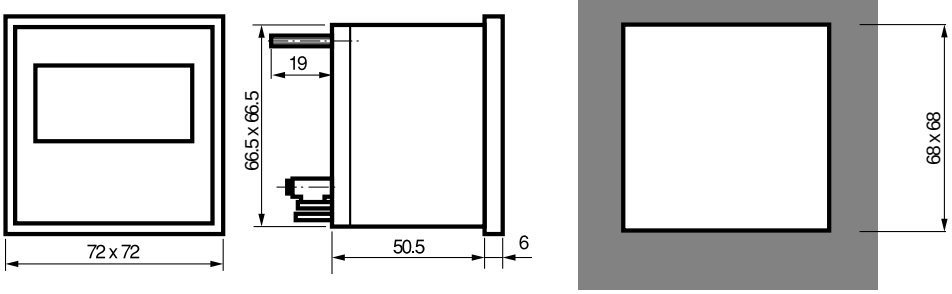
1. Display
3-dgt (maximum read-out 999).

Alphanumeric indication by means of 7-segment display for:
- Displaying of the measured value, over-range.

Range Table

Range	Connection			Decimal point position	Resolution	Voltage drop ammeters	Input imp. voltmeters	Range code
1A/100 V	Direct 1A		Direct 100 V	999/99.9	1 mA/0.1 V	1 V	1 MΩ	**AV1**
5A/500 V	Direct 5A		Direct 500 V	9.99/999	10 mA/1 V	250 mV	1 MΩ	**AV5**
10 A	CT10/1 A	CT10/5 A		9.99	10 mA	1 V/250 mV		**AV1/AV5**
15 A	CT15/1 A	CT15/5 A		99.9	100 mA	1 V/250 mV		**AV1/AV5**
25 A	CT25/1 A	CT25/5 A		99.9	100 mA	1 V/250 mV		**AV1/AV5**
40 A	CT40/1 A	CT40/5 A		99.9	100 mA	1 V/250 mV		**AV1/AV5**
50 A	CT50/1 A	CT50/5 A		99.9	100 mA	1 V/250 mV		**AV1/AV5**
60 A	CT60/1 A	CT60/5 A		99.9	100 mA	1 V/250 mV		**AV1/AV5**
100 A	CT100/1 A	CT100/5 A		99.9	100 mA	1 V/250 mV		**AV1/AV5**
150 A	CT150/1 A	CT150/5 A		999	1 A	1 V/250 mV		**AV1/AV5**
220 V			VT220/100 V	999	1 V		1 MΩ	**AV1**
250 A	CT250/1 A	CT250/5 A		999	1 A	1 V/250 mV		**AV1/AV5**
380 V			VT380/100 V	999	1 V		1 MΩ	**AV1**
400 A	CT400/1 A	CT400/5 A		999	1 A	1 V/250 mV		**AV1/AV5**
500 A/V	CT500/1 A		VT500/100 V	999	1 A/V	1 V	1 MΩ	**AV1**
500 A	CT500/5 A			999	1 A	250 mV		**AV5**
600 A/V	CT600/1 A		VT600/100 V	999	1 A/V	1 V	1 MΩ	**AV1**
600 A	CT600/5 A			999	1 A	250 mV		**AV5**
1000 A/V	CT1000/1 A		VT1000/100 V	999	1 A/V	1 V	1 MΩ	**AV1**
1000 A	CT1000/5 A			999	1 A	250 mV		**AV5**

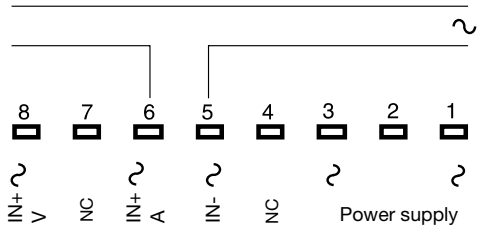
Dimensions (mm)



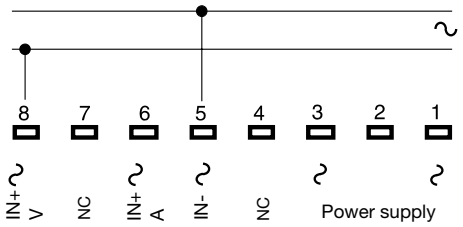
Specifications are subject to change without notice

Wiring Diagrams

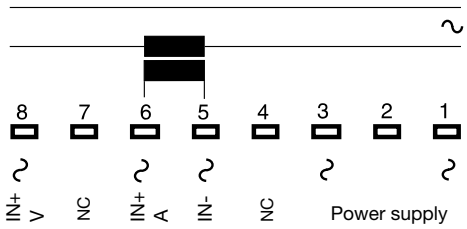
Current measurements - direct



Voltage measurements - direct



Current measurements - C.T.



Voltage measurements - V.T.

