

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



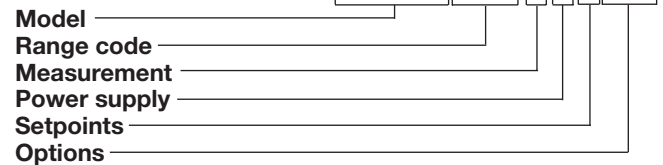
- 3-dgt μ P-based indicator for AC currents or voltages
- Selectable CT/VT primary range
- Panel mounting
- 72 x 72 mm
- Degree of protection (front): IP 50 (IP 65 on request)

Product Description

3-dgt μ P-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



Type Selection

| Range code | Power supply | Options |
|---|---|--|
| AV1: 1 A/100 V Standard current/voltage | A: 24 VAC, -15% +10%, 50/60 Hz ¹⁾ | XX: None (standard) EX: Degree of protection IP 65 ¹⁾ |
| AV5: 5 A/500 V Standard current/voltage | 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) | ¹⁾ 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 \pm 5°C, R.H. \leq 60%) | \pm 0.5% f.s., \pm 1 dgt |
| Temperature drift | \pm 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

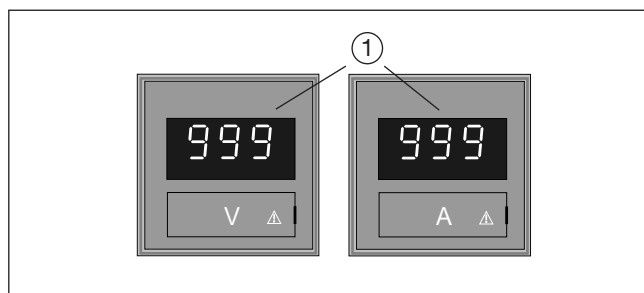
| | |
|--|--|
| Operating temperature | 0° to 50°C (32° to 122°F) (R.H. < 90% non-condensing) |
| Storage temperature | -10° to 60°C (14° to 140°F) (R.H. < 90% non-condensing) |
| Insulation reference voltage | 300 V _{ms} to ground |
| Dielectric strength | 4000 V _{ms} for 1 minute |
| Noise rejection 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 Material | 72 x 72 x 75 mm ABS, self-extinguishing: UL 94 V-0 |
| Degree of protection | Front: IP 50 (IP 65 on request) |
| Weight | Approx 250 g |
| Approvals | CSA, CE |



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).

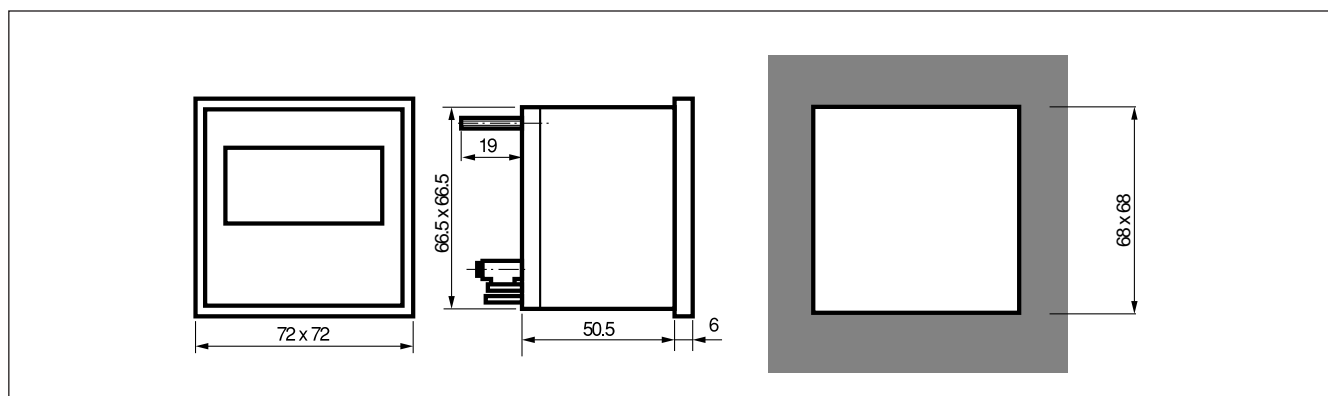
Alphanumeric indication by means of 7-segment display for:

- 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 MΩ | AV1 |
| 5A/500 V | Direct 5A | | Direct 500 V | 9.99/999 | 10 mA/1 V | 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 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 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 MΩ | AV1 |
| 1000 A | CT1000/5 A | | | 999 | 1 A | 250 mV | AV5 |

Dimensions



Wiring Diagrams

