

# Panel Meters and Controllers

## DC Ammeter and Voltmeter

### Type DI3-72 AV6

CARLO GAVAZZI



- 3-dgt  $\mu$ P-based indicator for DC currents or voltages
- Selectable input range
- For panel mounting
- 72 x 72 mm
- Degree of protection (front): IP 50 (IP 65 on request)

### Product Description

3-dgt  $\mu$ P-based meter with double input for DC currents or voltages. With 18 selectable input ranges. The hous-

ing is for panel mounting and ensures a degree of protection (front) of IP 50 (IP 65 on request).

### Type Selection

Power supply	Options
<b>A:</b> 24 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	<b>XX:</b> None (standard)
<b>B:</b> 48 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	<b>EX:</b> Degree of protection IP 65
<b>C:</b> 115 VAC, -15% +10%, 50/60 Hz <sup>1)</sup>	
<b>D:</b> 230 VAC, -15% +10%, 50/60 Hz (standard)	<sup>1)</sup> Power supply on request

### Input Specifications

<b>Rated input</b>	1 A / 60 mV / 100 V / 500 VDC
<b>Overload protection</b>	
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
<b>Accuracy</b> (@ 25°C $\pm$ 5°C, R.H. $\leq$ 60%)	$\pm$ 0.5% f.s., $\pm$ 1 dgt
<b>Temperature drift</b>	$\pm$ 350 ppm/°C
<b>Display</b>	7-segment LED, h 14.2 mm, 3 digits
<b>Sampling rate</b>	1 time/s
<b>Indication</b>	
Max.	999
Min.	-99
Over range	EEE
Under range	-EE
<b>Input range selection</b>	DIP-switch selectable
<b>Decimal point position</b>	DIP-switch selectable

### Ordering Key

**DI3-72AV6DD0XX**

Model	DI3-72AV6DD0XX
Range code	
Measurement	
Power supply	
Setpoints	
Options	

### 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>	3.2 VA

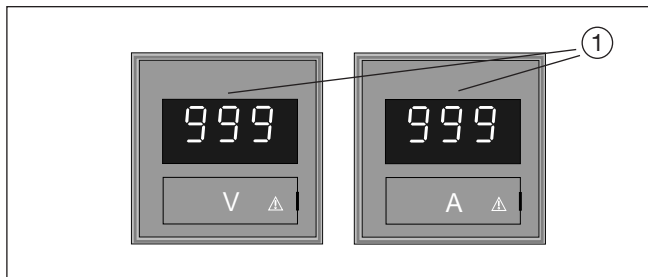
### General Specifications

<b>Operating temperature</b>	0 to 50°C (32 to 122°F) (R.H. < 90% non-condensing)
<b>Storage temperature</b>	-10 to 60°C (14 to 140°F) (R.H. < 90% non-condensing)
<b>Insulation reference voltage</b>	300 V <sub>rms</sub> to ground
<b>Dielectric strength</b>	4000 V <sub>rms</sub> for 1 minute
<b>Noise rejection</b>	
NMRR	40 db, 40 to 60 Hz
CMRR	100 dB, 40 to 60 Hz
<b>EMC</b>	IEC 60801-2, IEC 60801-3, IEC 60801-4 (level 2), EN 50 081-1, EN 50 082-1
<b>Safety standards</b>	EN 61 010-1, IEC 61010-1, VDE 0411
<b>Connector</b>	Screw-type
<b>Housing</b>	
Dimensions	72 x 72 x 75 mm
Material	ABS, self-extinguishing: UL 94 V-0
<b>Degree of protection</b>	Front: IP 50 (IP 65 on request)
<b>Weight</b>	Approx. 250 g
<b>Approvals</b>	CE, CSA

## Range Table

Measurement	Connection	Dec. point position	Input impedance/volt. drop	Resolution	Range code
100 V	Direct	99.9	1 MΩ	0.1 V	AV6
500 V	Direct	999	1 MΩ	1 V	AV6
1 A	Direct	999	1 V	1 mA	AV6
1.5 A	60 mV/1.5 A shunt	9.99	13 kΩ	10 mA	AV6
2.5 A	60 mV/2.5 A shunt	9.99	13 kΩ	10 mA	AV6
4 A	60 mV/4 A shunt	9.99	13 kΩ	10 mA	AV6
6 A	60 mV/6 A shunt	9.99	13 kΩ	10 mA	AV6
10 A	60 mV/10 A shunt	9.99	13 kΩ	10 mA	AV6
15 A	60 mV/15 A shunt	99.9	13 kΩ	100 mA	AV6
25 A	60 mV/25 A shunt	99.9	13 kΩ	100 mA	AV6
40 A	60 mV/40 A shunt	99.9	13 kΩ	100 mA	AV6
60 A	60 mV/60 A shunt	99.9	13 kΩ	100 mA	AV6
100 A	60 mV/100 A shunt	99.9	13 kΩ	100 mA	AV6
150 A	60 mV/150 A shunt	999	13 kΩ	1 A	AV6
250 A	60 mV/250 A shunt	999	13 kΩ	1 A	AV6
400 A	60 mV/400 A shunt	999	13 kΩ	1 A	AV6
600 A	60 mV/600 A shunt	999	13 kΩ	1 A	AV6
1000 A	60 mV/1000 A shunt	999	13 kΩ	1 A	AV6

## Front Panel Description



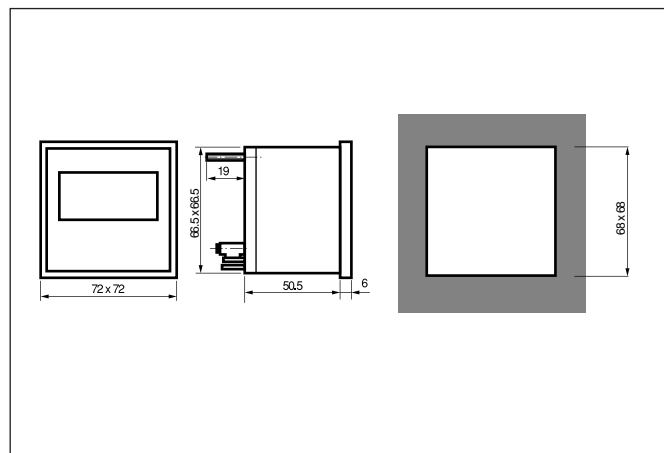
### 1. Display

3-dgt (maximum read-out 999).

Alphanumeric indication by means of 7-segment display for:

- Displaying of the measured value, over-range.

## Dimensions (mm)



## Wiring Diagrams

