

Panel Meters and Controllers

DC Ammeter and Voltmeter

Type LDI3 AV6

CARLO GAVAZZI



- 3-dgt μ P-based indicator for DC currents or voltages
- Selectable input range
- 48 x 96 mm
- Degree of protection (front): IP 50 (IP 65 on request)

Product Description

3-dgt multi-range μ P-based meter for DC current and voltage measurements. With 18 selectable input ranges. Ensures a degree of protection (front) of IP 50 (IP 65 on request).

Ordering Key

LDI3AV6D0 XX XX

Model _____
 Range code _____
 Power supply _____
 Setpoints _____
 Engineering unit _____
 Option _____

Type Selection

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

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

Input Specifications

Rated input	1 A/60 mV/100 V/500 VDC
Overload protection	
Cont. Current:	1.2 x rated input
Voltage:	1.2 x rated input
For 1s 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.	-99
Over range:	EEE
Under range:	-EE
Input range selection	DIP-switch selectable
Decimal point position	DIP-switch selectable

General Specifications

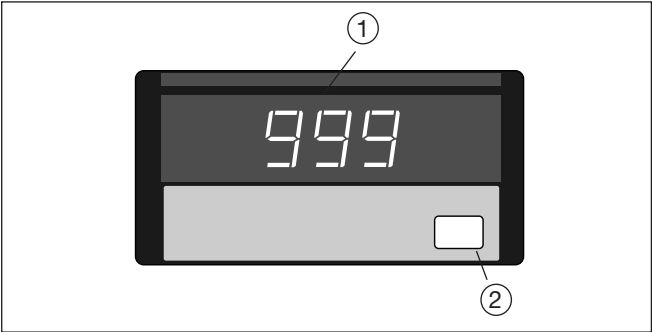
Operating temperature	0° to 50°C (32° to 122°F) (R.H. < 90% non-condensing)
Storage temperature	-10° to 60°C (14° to 140°F) (R.H. < 90% non-condensing)
Insulation reference voltage	300 V _{ms} to ground
Dielectric strength	4000 V _{ms} for 1 minute
Noise rejection	
NMRR	40 dB, 40 to 60 Hz
CMRR	100 dB, 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	1/8 DIN, 48 x 96 x 83 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



Range Table

Measure- ment	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).

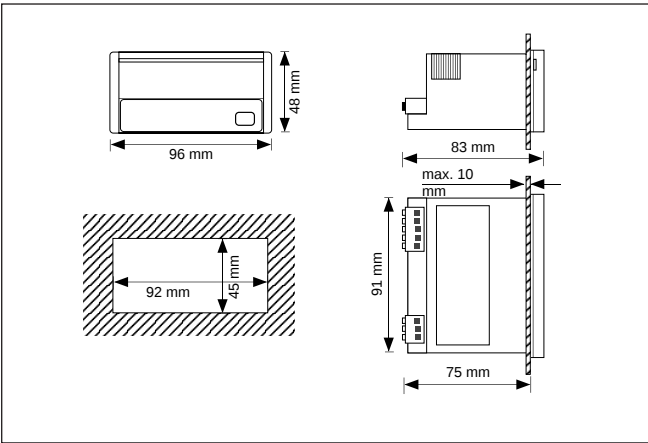
Alphanumeric indication by means of 7-segment display for:

- Displaying of the measured value, over-range.

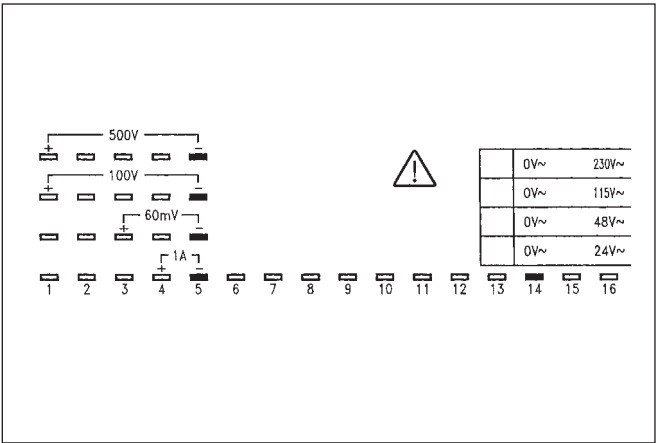
2. Engineering unit
Screen for interchangeable unit label. The symbols in the shaded areas are those available on the set of engineering unit labels supplied with the LDI3 (engineering unit label to be inserted by customer).

	W = 08	MΩ = 16	% = 24	mm HG = 32	cm = 40
mV = 01	kW = 09	Hz = 17	mbar = 25	l/min = 33	m = 41
V = 02	MW = 10	kHz = 18	bar = 26	l/h = 34	kg = 42
kV = 03	var = 11	RPM = 19	psi = 27	kg/min = 35	ppm = 43
μA = 04	kvar = 12	m/s = 20	ata = 28	ton/h = 36	kA = 44
mA = 05	Mvar = 13	m/min = 21	atm = 29	m³/min = 37	cos φ = 45
A = 06	Ω = 14	°C = 22	kg/cm² = 30	m³/h = 38	m³ = 46
mW = 07	kΩ = 15	°F = 23	mm H₂O = 31	mm = 39	μs = 47

Dimensions



Terminal Board



0V~	230V~
0V~	115V~
0V~	48V~
0V~	24V~

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