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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Digital Panel Meters AC Ammeters and Voltmeters Type LDM30 AV1/AV5





- 3 dgt LED + dummy zero, μ-based digital indicator, for TRMS AC current and voltage measurements
- Dip-switch-selectable ranges
- Front dimensions: 48 x 96 mm
- Front protection degree: IP 50 (IP 65 on request)

Product Description

3-dgt plus dummy zero μP -based indicator, double input for AC current or voltage measurements. 112 selectable

primary ranges. Housing for panel mounting and IP 50 front protection degree (IP65 on request).

How to order	LDM30 AV5D0 XX
Model —	
Range code	
Power Supply ———	
Set points	
Options —	

Type Selection

Range code			Pow	er supply	Options			
AV1:	1A / 100V AC	See Range table	B:	24/48 VAC, -15%	XX: IX:	None		
AV5:	5A / 500V AC	See Range table	D:	+10%,50/60 Hz 115/230 VAC, -15% +10%, 50/60 Hz	XT:	IP65 protection degree Tropicalization		

Specifications

Rated input AV5 AV1		5A (In) / 500V AC (Un), 45 to 400 Hz, TRMS 1A (In) / 100V AC (Un), 45 to 400Hz, TRMS					
Overload prote	ection						
Continuous:	Current: Voltage:	1.2 x l _n 1.2 x U _n					
For 1 s:	Current: Voltage:	5 x I _n 2 x U _n					
Accuracy							
(@ 25°C ± 5°C	C, R.H. ≤ 60%)	± 0.5% F.S., ± 1 DGT (from 5% to 120% F.S.). ± 1% F.S., ± 1 DGT (from 0% to 5% F.S.)					
Temperature of	lrift	± 200 ppm/°C					
Input impedan AV1 AV5	ce	1A: voltage drop 1V 100V: ≥1MΩ 5A: voltage drop 250mV 500V: ≥1MΩ					
Display		7-segment red LED, h 14.2 mm, 4 digits					
Measurement	refresh time	2 measurements/sec @50Hz					
Display Max./Min. Over range		9990/0000 EEEE Indication >120% In/Un or up to the maximum indication (9990)					

Input range selection	DIP-Switch selectable
Decimal point position	DIP-Switch selectable
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 VRMs to ground
Dielectric strength	4000 VRMs for 1 minute
Noise rejection CMRR	100 dB, from 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 61010-1, IEC 61010-1
Connections	Screw-type
Housing Dimensions Material	1/8 DIN, 48 x 96 x 83 mm ABS, self-extinguishing: UL 94 V-0
Degree of protection	Front: IP 50 (IP 65 on request); Connections: IP20
Weight	250 g approx.
Approvals	CE, cURus, CSA



Power Supply Specifications

AC power supply

24/48 VAC, 115/230 VAC, -15% +10%,50/60 Hz

Power consumption

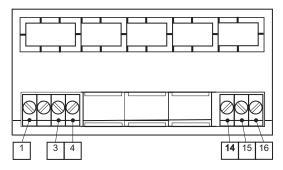
3.2 VA

Range Table

				A (Current)						ON DIP V (Voltage)										
AV1: In=1A; Un=100V (110V) AV5: In=5A; Un=500V (600V)				In: 1A, 5A AC							Vn: 100V, 500V AC									
7 8			7	8	7	8	7	8	7	8	7	8	7	8	7	8				
Decimal point selection or dummy zero		ON	ON	OFF ON ON		OFF	OFF	OFF	ON ON		OFF ON		ON	ON OFF		OFF OFF				
		"X.	"X.XX" "XX.X"		"XXX"		"XXX0"		"X.XX"		"XX.X"		"XXX"		"XXX0"					
	6													ON (11	ON (110V F.S.)		ON (110V F.S.)			
				0	OFF OFF		OFF		OFF		OFF		OFF		OFF (100V F.S.)		OFF (100V F.S.)			
2	3	4	5																	
OFF	OFF	OFF	OFF	1.2	!0A	12	.0A	12	120A		1200A		-		11.0V		110V		1100V	
ON	OFF	OFF	OFF	1.2	!5A	12	.5A	125A		1250A		-		11.5V		115V		1150V		
OFF	ON	OFF	OFF	1.5	60A	15	.0A	15	150A		1500A -		22.0V		220V		2200V			
ON	ON	OFF	OFF	1.6	60A	16.0A		160A		1600A		-		23.0V		230V		2300V		
OFF	OFF	ON	OFF	1.7	'5A	17.5A		175A		175	1750A -		-	24.0V		240V		2400V		
ON	OFF	ON	OFF	2.0	0A	20.0A		200A		2000A -		-	38.0V		380V		3800V			
OFF	ON	ON	OFF	2.5	60A	25.0A		250A		2500A		-		40.0V		400V		4000V		
ON	ON	ON	OFF	3.0	0A	30.0A		300A		3000A		-		44.0V		44	440V		4400V	
OFF	OFF	OFF	ON	3.5	i0A	35.0A		350A		3500A		-		45.0V		450V		4500V		
ON	OFF	OFF	ON	4.0	0A	40	.0A	400A		4000A		-		50.0V		500V		5000V		
OFF	ON	OFF	ON	5.0	00A	50	.0A	DA 500A		5000A		-		60.0V		600V		6000V		
ON	ON	OFF	ON	6.0	00A	60	.0A	600A		600	6000A -		-	66.0V		660V		6600V		
OFF	OFF	ON	ON	7.0	0A	70	.0A	700A		700	000A -			69.0V		690V		6900V		
ON	OFF	ON	ON	7.5	60A	75	.0A	750A		750	0A	-		70	.0V	700V		7000V		
OFF	ON	ON	ON	8.0	00A	80	.0A	800A		800	00A	-		80.0V		800V		8000V		
ON	ON	ON	ON	9.9	9A	99	99.9A 999A		9A	999	0A)A -		99.9V 999V 9990V					90V	
	1		ON	ON						V, voltage measurement										
OFF		OFF	A, Current measurement																	

Terminal boards

Back view of the instrument





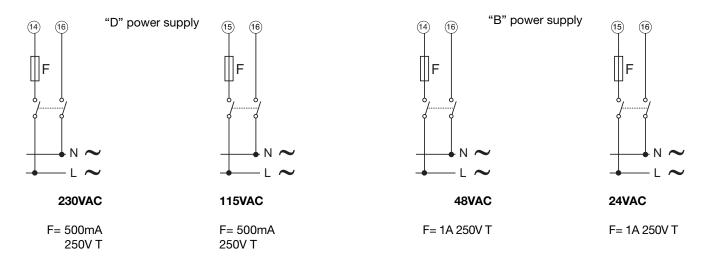
Wiring diagrams, current measurements



Wiring diagrams, voltage measurements

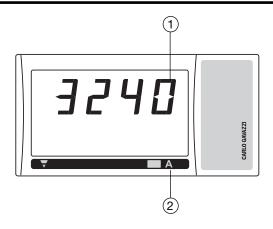


Wiring diagrams, power supply





Front panel description



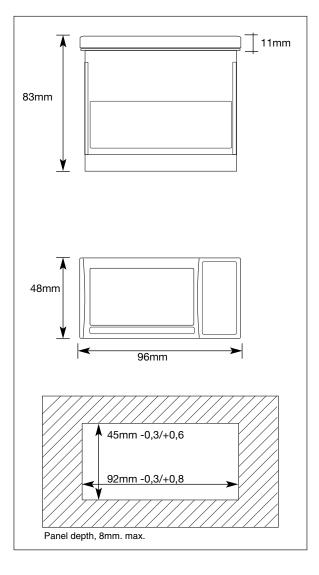
1. Display

3 dgts + dummy zero (maximum indications 9990). Alpha-numerical indication with 7-segment LCD to display measurement values and over range indication

2. Engineering unit

The instrument is supplied with a complete set of labels with the main engineering units.

Dimensions



Engineering units

