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Digital Panel Meters

Carlo Gavazzi



Ammeter, voltmeter and frequency meter

Types

DI3-DIN



DI3-72



LDI 3



Dimensions (mm) H x W x D	89 x 52.5 x 58.5	72 x 72 x 75.5	48 x 96 x 83
Function	3-digit meter. 1-phase AC, DC. Voltmeter, ammeter frequency meter.	Microprocessor based indicator. AC/DC Ammeter, Voltmeter. Freq. meter 3 digits display red LED. Height: 14.2 mm.	Microprocessor based indicator. AC/DC Ammeter, Voltmeter. Freq. meter 3-digits display.
Input Specifications			
Range code	1 A/100 VAC [AV1] 5 A/500 VAC [AV5] 1 A/60 mV/100 V /500 VDC [AV6] 1 Hz to 1000 Hz [F1K]	[AV1]: 1 AAC / 100 VAC [AV5]: 5 AAC / 500 VAC [AV6]: 1 ADC / 60 mV / 100 V / 500 VDC	[AV1]: 1 AAC/100 VAC [AV5]: 5 AAC/500 VAC [AV6]: 1 ADC/60 mV /100 V/500 VDC [F1K]: 1 to 1000Hz
Accuracy	0.5% FS (0.1% frequency meter)	±0.5% FS	±0.5% FS (±0.3% FS frequency meter)
Indication Max.	999 [AV1/AV5] 000 [AV1/AV5],	999 [AV1/AV5] 000 [AV1/AV5],	999,
Min.	-99 [AV6]	-99 [AV6]	[AV1/AV5]: 000, [AV6]: -99,
Resistance			
Range selection/decimal point pos.	Selectable by DIP-switch	Selectable by DIP-switch	Selectable by DIP-switch
Display refresh time	1 time/s	1 time/s	1 time/s
General Specifications			
Power supply	24 VAC [A] 48 VAC [B] 115 VAC [C] 230 VAC [D]	24 VAC [A], 48 VAC [B], 115 VAC [C], 230 VAC [D]	230 VAC [D], 24 [A], 48 [B], 115 [C] VAC
Option			IP65[IX], tropicalization [XT]
Safety Standards	EN 61010-1, IEC 61010-1, VDE0411	EN 61010-1, IEC 61010-1, VDE0411	EN 61010-1, IEC 61010-1, VDE0411
Approvals/Marks	CE - CSA	CE - CSA	CE - CSA - UL
Ordering References	See page 216	See page 216	See page 216



Digital Panel Meters

Ammeter and Voltmeter

Thermometer and Ohmmeter

Types

LDI 35 AV0

LDI 35 AV2

LDI 35 CF



Dimensions (mm) H x W x D	48 x 96 x 83	48 x 96 x 83	48 x 96 x 83
Function	Microprocessor based indicator/controller, AC/DC ammeter, voltmeter, 3 ¹ / ₂ -digits or 3-digits + dummy zero display	Microprocessor based indicator/controller. AC/DC ammeter, voltmeter, 3 ¹ / ₂ -digits or 3-digits + dummy zero display	Microprocessor based indicator/controller. Temperature resistance Measur. in C° or F° 3 ¹ / ₂ -digits or 3-digits + dummy zero display
Input Specifications			
Range code	Current: 2 mA DC, 20 mA DC Voltage: 200 mV DC, 20 VDC, 200 VDC [AV0]	Current: 2 A AC/DC, 5 A AC/DC, Voltage: 200 V AC/DC, 500 V AC/DC [AV2]	Pt100, Ni100 [CFX] Pt1000 [CFP]; TC-J-L-K-S-T [CFX/CFP] 200.0K [CFX] 2000K [CFP]
Accuracy	±0.3% FS	DC: ±0.3% FS, AC: ±0.5% FS	TC, PT100/1000, resist. ± 0,3% FS Ni 100 ± 0,5% FS
Indication	Max. 3 ¹ / ₂ -dgt: 1999, 3+0-dgt: 9990, Min. 3 ¹ / ₂ -dgt: -1999 3+0-dgt: -1990,	3 ¹ / ₂ - dgt: 1999 3+0-dgt: 9990, 3 ¹ / ₂ -dgt: -1999 (DC), 0 (AC), 3+0-dgt: -1990 (DC), 0 (AC)	Depending on range and type of the temperature probe
Resistance			0 to 200K (2000K)
Range selection/decimal point pos.	Programmable	Programmable	Programmable
Display refresh time	4 times/s	4 times/s	2 times/s
Functions	Password protection Scaling factor Diagnostics Digital filter programm. Max. data hold	Password protection Scaling factor Diagnostics Digital filter programm. Max. data hold	Password protection Scaling factor Diagnostics Digital filter programm. Max. data hold
Output Specifications			
Setpoints	1 optional alarm [1] 5 A/250 V AC/DC.Excit. output 40mA/15VDC[AX]	1 optional alarm [1] 5 A/250 V AC/DC.Excit. output 40mA/15VDC[AX]	1 optional alarm [1] 5 A/250 V AC/DC. Excit. output 40mA/15VDC[AX]
General Specifications			
Power supply	120 [E], 230 [D], 240[F], 24 [A] 48 [B], 115 [C] VAC, 9-32 [3] VDC, 40-150 [6] VDC,	120 [E], 230 [D], 240[F], 24 [A] 48 [B], 115 [C] VAC, 9-32 [3] VDC, 40-150 [6] VDC,	120 [E], 230 [D], 240[F], 24 [A] 48 [B], 115 [C] VAC, 9-32 [3] VDC, 40-150 [6] VDC,
Option	IP65[IX], excit. out [AX], tropicalization [XT]	IP65[IX], excit. out [AX], tropicalization [XT]	IP65[IX], excit. out [AX], tropicalization [XT]
Safety Standards	EN 61010-1, IEC 61010-1, VDE0411	EN 61010-1, IEC 61010-1, VDE0411	EN 61010-1, IEC 61010-1, VDE0411
Approvals/Marks	CE - CSA - UL	CE - CSA - UL	CE - CSA - UL
Ordering References	See page 216	See page 216	See page 216

















Types

	Ammeter and Voltmeter LDM 30	Ammeter and Voltmeter LDM 35 H	Controller for pulse signals MDM
Dimensions (mm) H x W x D	48 x 96 x 83 mm	48 x 96 x 83 mm	48 x 96 x 83 mm
Description	3 DGT + dummy 0 μ P-based indicator, red LED display.	3 1/2-DGT μ P-based indicator and controller, 3 1/2-DGT or 3-DGT + dummy 0 red LED display.	Microprocessor-based meter/controller. Rate speed, frequency and period measurement. 4 -digit display.
Input Specifications			
Range code	1A/100VAC [AV1] 5A/500VAC [AV5]	(0.2-2-20mA, 0.2-2-20V) [LSE]; (0.2- 2-5A, 20-200-500V) [HSX] DC and AC TRMS	0.001 to 500 Hz, 0.1 to 50 kHz. Signal type: DC signal PNP, NPN, NAMUR, TTL free of voltage contacts. Voltage up to 30 VDC [TF1]; AC signals pick-up voltages up to 500 VAC [TF2]
Accuracy	$\pm 0.5\%FS, \pm 1DGT$	DC: $\pm(0.3\%RDG + 3DGT)$ AC: $\pm(0.5\%RDG + 3DGT)$	
Indication Max. Min.	9990 000		9999, 0 (AC) -1999 (DC)
Range selection/decimal	Selectable by dipswitch	Programmable	Programmable
Display refresh time	2 times/s	5 times/s	4 times/s
Functions		Signal/display scaling. Digital filter, Peak and valley.	Password protection Scaling factor Diagnostics Programm.digital filter Range selection
Output Specifications		Up to 2 Alarm relay, [1-2]	Analogue 0 to 20 mA, 0 to 10V [A]. Serial RS485 unidirectional [R]. Serial RS485 bidirectional [S] [W]=[A]+R, [Y]=[A]+[S]
General Specifications			
Power supply	24/48V AC [B] 115/230V AC [D]	90 to 260V AC/DC [H], 18 to 60V AC/DC [L]	120[E], 230[D], 240[F], 24[A], 48[B], 115[C] VAC, 9 to 32[3] VDC, 40 to 150 [6] VDC
Safety Standards	EN61010-1 IEC61010-1		EN 61010-1, IEC 61010-1, VDE0411
Approvals/Marks	CE	CE, c CSA us and UR pending	CE, UR
Option	Tropicalization [XT] IP65 [IX]	Tropicalization [TX]	Tropicalization + IP65 [XT]
Ordering References	See page 217	See page 217	See page 217



Digital Panel Meters

Types

	Modular Meter		Signal Conditioner
	UDM 35	UDM 40	USC
			
	  	  	  
Dimensions (mm) H x W x D	48 x 96 x 105	48 x 96 x 105	44 x 113 x 107
Description	MODULAR Microprocessor-based indicator/controller AC/DC Ammeter/Voltmeter resistance temperature measurement	MODULAR Microprocessor-based indicator/controller AC/DC Ammeter/Voltmeter resistance temperature measurement	MODULAR Microprocessor-based signal conditioner AC/DC Ammeter/Voltmeter resistance temperature measurement
Input Specifications			
Range code	0.2-2-20mA DC/AC 0.2-2-20V DC/AC [LSX] + AUX 13VDC [LSE] or 25VDC [LSE]; 0.2-2-5A DC/AC; 20-200-500V DC/AC [HSX]; TC: J-K-S-T-E, Pt100-250-500-1000 [TRX]; 0.02-0.2-2-20kK [TRX]	0.2-2-20mA DC/AC 0.2-2-20V DC/AC [LSX] + AUX 13VDC [LSE] or 25VDC [LSE]; 0.2-2-5A DC/AC; 20-200-500V DC/AC [HSX]; TC: J-K-S-T-E, Pt100-250-500-1000 [TRX]; 0.02-0.2-2-20kK [TRX]	0.2-2-20mA DC/AC 0.2-2-20V DC/AC [LSX] + AUX 13VDC [LSE] or 25VDC [LSE]; 0.2-2-5A DC/AC; 20-200-500V DC/AC [HSX]; TC: J-K-S-T-E, Pt100-250-500-1000 [TRX]; 0.02-0.2-2-20kK [TRX]
Accuracy	Accuracy: 0.1% RDG	Accuracy: 0.1% RDG	Accuracy: 0.1% RDG
Indication	Max. 1999, Min. 0 (AC) -1999 (DC) 3 1/2 digit LED red	9999, 0 (AC) -9999 (DC) 4 digit LED. Colours: red, green, orange	4 digit data format
Range selection/decimal	Programmable	Programmable	Programmable
Display refresh time	5 times/s	5 times/s	5 times/s
Functions	Password protection. Scaling factor. Min Max data storage. Programmable digital filter. Range selection.	Password protection. Scaling factor. Min Max data storage. 16 linearization points. Programm. digital filter. Range selection. Programmable via PC.	Password protection. Scaling factor. Min Max data storage. 16 linearization points. Programm. digital filter. Range selection. Programmable via PC.
Output Specifications			
	Analogue 0 to 20mA, 0 to 10V [AV] Serial RS485 [SX] Serial RS232 [SY] Single relay output [R1] Dual relay output [R2] Dual relay + dual open coll. output [R4]	Analogue 0 to 20mA, 0 to 10V [AV] Serial RS485 [SX] Serial RS232 [SY] Single relay output [R1] Dual relay output [R2] Dual relay + dual open coll. output [R4]	Analogue 0 to 20mA, 0 to 10V [AV] Serial RS485 [SX] Serial RS232 [SY] Single relay output [R1] Dual relay output [R2] Dual relay + dual open coll. output [R4]
General Specifications			
Power supply	90 to 260V AC/DC [H] 18 to 60V AC/DC [L]	90 to 260V AC/DC [H] 18 to 60V AC/DC [L]	90 to 260V AC/DC [H] 18 to 60V AC/DC [L]
Safety Standards	EN 61010-1, IEC 61010-1	EN 61010-1, IEC 61010-1	EN 61010-1, IEC 61010-1
Approvals/Marks	CE	CE	CE; c CSA us and UR
Option	Tropicalization [TX]	Tropicalization [TX]	Tropicalization [TX]
Ordering References	See page 217	See page 217	See page 217

