

MLA69 ANALOG AMMETER

MLA69 Analog Ammeter

- ü AC/DC Current meter
- ü Magnetoelectric Ammeter
- ü Sturdy ABS housing
- ü Protected by a shock resistant soft moulded holster
- ü Length of the scale: 90mm
- ü Safety sockets 4mm
- ü Protection : Fuse 1A and 10A
- ü Operating frequency: 45-400Hz
- ü All ranges are selected by one rotary switch.
- ü **Range DC : 100mA.....to.....10A ;**
 - o 100/300mA, 1/3/10/30/100/300mA, 1/3/10A
 - o accuracy: 1,5%
- ü **Range AC : 10mA.....to.....10A ;**
 - o 10/30/100/300mA, 1/3/10A
 - o accuracy: 2,0%



MLV69 ANALOG VOLTMETER

MLV69 Analog Voltmeter

- ü AC/DC Voltage meter
- ü Magnetoelectric Voltmeter.
- ü Sturdy ABS housing,
- ü Protected by a shock resistant soft moulded holster
- ü Length of the scale: 90mm
- ü Safety sockets 4mm
- ü Internal resistance 20k Ω /V in DC - 6300 Ω /V in AC
- ü Protection : electronic all ranges
- ü **Range DC : 100mV.....to.....1000V ;**
 - o 100mV, 1V, 3V, 10V, 30V, 100V, 300V, 1000V
 - o accuracy: 1,5%
- ü **Range AC : 3V.....to.....1000V ;**
 - o 3V, 10V, 30V, 100V, 300V, 1000V
 - o accuracy: 2,0%



MLG69 ANALOG GALVANOMETER

MLG69 Analog Galvanometer

- ü Magnetoelectric Galvanometer.
- ü Sturdy ABS housing,
- ü Protected by a shock resistant soft moulded holster
- ü Length of the scale: 90mm
- ü Safety sockets 4mm
- ü Protection : fuse 200mA
- ü **Range DC : 30uA-3mA(2 Steps), DC 100mA**
(1 Steps for shunts)
- ü **Accuracy : 1,5%**



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- ü **Dimensions 170x110x60 mm**
- ü **Weight 350g**



MLW69T

- ü DC utilization, mono and three phase
- ü AC/DC Current: 5A

MLW69T MLW69M

ANALOG
WATTMETERS/
POWER METERS

Mechanical shock resistant thanks to its flexible molded resistant ABS body and the robust middle rotary switch to select the scale.

Specifications

- 90mm scale length with anti parallax mirror
- 4mm safety sockets
- Fuse protection
- Bandwidth: 45÷65Hz

Safety & other

- IEC 61010-1 CATIII 600V Pol 2 double insulation
- Strong ABS case.
- Dimension: 165x110x58 mm
- Weight: 670g



Functions	V range AC/DC	Power	Current	Reading coeff.	Internal resist.	Precision
Monophase DC	60V	300W	5A	2,5	60kΩ	1,0% for AC 2,5% for DC
	120V	600W	5A	5	120kΩ	
	180V	900W	5A	10	180kΩ	
	240V	1200W	5A	10	240kΩ	
	360V	1800W	5A	20	360kΩ	
	480V	2400W	5A	20	480kΩ	
Three phase	60v ₃ V	900W	5A	10	120kΩ	2,0%
	120v ₃ V	1800W	5A	20	240kΩ	
	180v ₃ V	2700W	5A	30	360kΩ	
	240v ₃ V	3600W	5A	40	480kΩ	

MLW69M

- ü DC utilization, monophase
- ü AC/DC Current: 0,5 – 1A

Functions	V range AC/DC	Power	Current	Reading coeff.	Precision
Monophase DC	60V	30W	0,5A	0,25	1,0% for AC 2,5% for DC
	60V	60W	0,5A/1A	0,5	
	120V	120W	0,5A/1A	1	
	240V	240W	0,5A/1A	2	
	480V	480W	0,5A/1A	4	



MLA96

ANALOG AMMETER

- ü Dimensions 120 x 175 x 50mm
- ü weight 550g

MLA96 Analog Ammeter

Functions	A range AC/DC	Precision
DC	100µA	1,0%
	0,01 A	
	0,03 A	
	0,1 A	
	0,3 A	
	1 A	
	3 A	
AC	10 A	1,5%
	0,01 A	
	0,03 A	
	0,1 A	
	0,3 A	
	1 A	
	3 A	
10 A		



MLV96

ANALOG VOLTMETER

- ü Dimensions 120 x 175 x 50mm
- ü Weight 550g

MLV96 Analog Voltmeter

Functions	V range AC/DC	Precision
DC	1 V	1,0%
	3 V	
	10 V	
	30 V	
	100 V	
	300 V	
	500 V	
AC	1000 V	1,5%
	3 V	
	10 V	
	30 V	
	100 V	
	300 V	
	500 V	
1000 V		



CM301

Clamp AMMETER

- ü Power: 9V alkaline or carbon-zinc battery
- ü Low battery indication: "BAT" to left of display
- ü Dimension: 90 (W) x 230 (D) x 43 (H) mm
- ü Weight: 320gr. (including battery)

CM301

Hand Digital clamp ammeter

- DC Voltage: 2V-1000V
- AC Voltage: 200V-750V
- AC Current: 200A-1000A
- Resistance: 200Ohm-200MOhm
- Frequency: 0-20kHz



ML22

ANALOG MULTIMETER

- ü Dimensions 125 x 175 x 50mm
- ü Weight 450g

ML22

Analog Multimeter

- DC-V: 0.3V-1200V $\pm 3\%$ f.s.
- AC-V: 3V-300V $\pm 3,5\%$ f.s.
- DC-A: 0.3mA-12A $\pm 3\%$ f.s.
- AC-A: 12A $\pm 4\%$ f.s.
- Resistance: 1 Ohm-1MOhm; $\pm 3\%$ f.s.



DMM39

Digital MULTIMETER

- ü Dimensions 85 x 175 x 50mm
- ü Weight 350g

DMM39

Digital Multimeter

- DC Voltage: 200mV-1000V $\pm(0.5\%+1\text{dgt})$
- AC Voltage: 200mV-750V $\pm(0.8\%+3\text{dgt})$
- DC Current: 20uA-20A $\pm(0.8\%+1\text{dgt})$
- AC Current: 20uA-20A $\pm(1.0\%+3\text{dgt})$
- Resistance: 200 Ohm-200MOhm $\pm(0.8\%+1\text{dgt})$
- Diode Test
- Transistor Test
- Continuity Buzzer
- Data Hold

