# S KR ISO9001

# DIGITAL PANEL METER



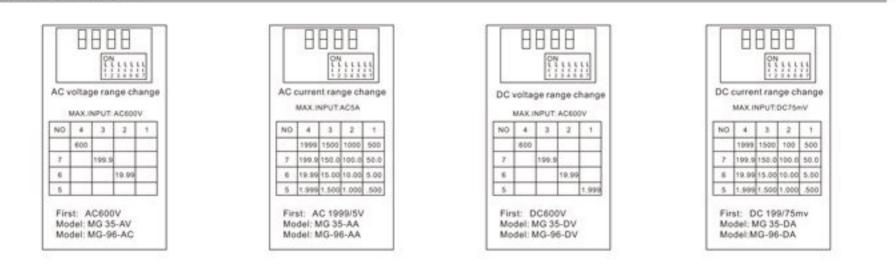
**MG-96A-S** 

for correctly use of this instrument, please read carefully this specification before operation.
keep properly this specification after reading.
Technical date

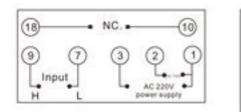
## **TECHNICAL DATA**

AC 220V AC, DC 90-270V OR AC, DC 36-72V	VOLTAGE METER 600V CURRENT 5A AC>5A CT/5A DC/75mV
MAX.DISPLAY 1999 LED 12.2mm H	
$0.5\% fs \pm 1 digit$	About300g
About 2.5 TIMES/S	96mm(w)×48mm(h)×112mm(d)
Dual scope	93mm×45mm
0~50 °C	AC 1500V 1MIN
<3W	DC 500V>100M Ω

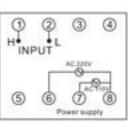
## **OPERATION RANGE**



### DESCRIPTION OF WIRING TERMINAL



Mg35 wiring terminal SIZE:96×48×112mm HOLE:92×44mm



MG-96 wiring terminal SIZE:96×96×65mm HOLE:90×90mm

## NOTE

(1).For best performance, the meter should be pre-heated 15 minutes before operation if it is not use for a long time.

(2).The meter should be used under condition of:

Ambient temperature: 0-50℃, Relative humidity:≤85%

(3). The calibration interval should be one year; the precision of calibrator should be superior to 0.1 Grade.

(4). The meter should prevent from shocking and im pulsing, and should not use under condition of heavy dust or high concentration chemical drug or gas. Please apply power supply filter or other antiinterference circuit when use the meter in environment of high magnetic field, high frequency or high voltage spark.

(5). The calibrating rheostat is use for calibrating the meter, nonprofessional should not calibrate or disassembly the meter, as well as no calibrator available.













# **MODULAR TYPE PANEL METER**

## DC VOLTMETRS

Model: MG-C45V Accuracy: Class 1.5 Specification:20V 30V 50V 100V 150V 200V 250V 300V 450V 600V 1000V Measuring ranges over 450V with external resistor (rated current 5mA) Heat resistance: case of non-combustible plastic material. Mounting type: DIN rail

#### **FREQUENCY METERS**

Model: MG-F45V Accuracy: Class 1.0 Specification: Voltmeter: 100V 220V 380V 440V Frequency: 45-55Hz 45-65Hz 47-63Hz 57-63Hz 44-56Hz 54-66Hz 350-450Hz 450-550Hz 550-650Hz Heat resistance: case of non-combustible plastic material. Mounting type: DIN rail

## AC VOLTMETRS

Model: MG-F45V Accuracy: Class 1.0 Specification:30V 50V 75V 120V 120V 150V 250V 400V 450V 500V 600V For450V-450KV, meters can use potential transformer with secondary voltage 100V. Heat resistance: case of non-combustible plastic material. Mounting type: DIN rail

### **DCAMMETRS**

Model:MG-T45A Accuracy: Class 1.5 Specification: 100 µ A 500 µ A ImA 3mA 5mA 10mA 20mA 30mA 50mA 100mA 150mA 200mA 250mA 300mA 500mA 1A 3A 7.5A 10A 15A 20A For 10A-10KA, use external 75mV 60mV or 45mV shunt. For the direct reading from 20A to 60A meter the class is 2.5A. Heat resistance: case of non-combustible plastic material. Changeable scale: The dial plate with the same scale division, which is at the same internal value, can be changeable.

#### POWER FACTOR METER COS $\Phi$

Model: MG-PF45 Accuracy: Class 2.5 Single phase: 100V 220V 380V 440V current: 5A Three phase: 100V 220V 380V 440V current: 5A Specification: 0.5cap-1-0.5ind 0.3cap-1-0.7ind 0.4cap-1-0.4ind 0.7-1-0.2ind Heat resistance: case of non-combustible plastic material. Frequency: 50Hz or 60Hz Mounting type: DIN rail

#### AC VOLTMETRS

Model: MG-T45A Accuracy: Class 1.5 2.5 Specification: 0.1A 0.5A 1A 7.5A 10A 15A 20A 30A 40A 60A For 10-10KA, use external current transformer with secondary current 5A. For the direct reading from 20A to 60A meter, the class is 2.5 . Heat resitance: case of non-combustible plastic material. Changeable scale: All scales with printing technique. The dial plate with the same scale division, which is at the same division and internal value, can be changeable.

# **MOVING COIL INSTRUMENT POWER METERS**



MG-VAR45



**MG-W45** 



MG-36

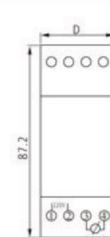


MG-100

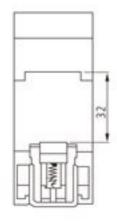
Wattmeter Model: MG-W45 Varmeter Model: MG-VAR45 Accuracy: Class 1.5 Specification: Voltage: Single phase: 100A 200V 380V Three phase three wire: 100A 220V 380V 415V Three phase four wire: 100A 220V(380)V 240V( 415)V Above-mentioned can be connected directly. The following should be connected with voltage transformers: 380/100V 500/100V 3K/100V 6K/100V 10K/100 15K/100V 35K/100V... Current: 1A, 5A The voltage circuits of the meter connected with voltage transformers. Which secondary voltage is 100V, if the secondary voltage is lower than 450V, it also can be connected directly. The current circuits connected with current transformers, which secondary current is 5A or 1A. Wattmeters and Varmeters with converter for three-phase three wires or four wire and single phase, which can be used for balance and unbalance burden circuit. Heat resistance: Case of non-combustible plastic material. Frequency: 50Hz or 60Hz Fastening: By means of nust, absolutely safe, fast, robust, side-by-side Mounting: DIN rail: 72mm × 87.2mm × 65mm

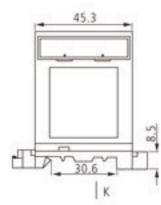
# **MODULAR (EXPLOSION-PROOF)**

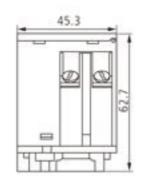
### **OUTLINE DRAWING**

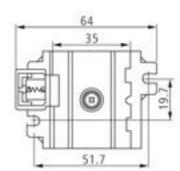












#### SIZE OF DIN RAIL TYPE SERIES METER

		Ð		Measurement of Din Rail
MG-36	mm	36	4	35
MG-45	mm	45	4	35
MG-100	mm	100	10	35

## DIGITAL MODULAR AC & DC AMMETER AND VOLTMETER

Model: MG-D365 AC MG-D365 DC

Feature:

- 1. Display: 3 1/2digits. LED display (red or green)
- 2. Accuracy: ±0.5%±2 digits
- 3. Auxiliary power: AC 110V ± 10% 50/60Hz or AC 110V ± 10% 50/60Hz
- 4. Input signal: AC current8.
- 5. Measuring range: 0-10A Acm if the current morethan 1A, the meter should be used with current transformer.
- 0-10A DC, if the current more than 10A, the meter should be used with shunt.
- 6. Consumption: <1.8VA
- 7. Max Signal Consumption: <0.3VA
- Operating Environment: temperature0°C~-40°C humidity: ≤85%
- Storage Environment: temperature-40°C ~+60°C humidity: ≤70%
- 10. Heat resistance: case of non-combustible plastic material
- 11. Hi-pot testing: more than 2000V

## POWER FACTOR METER COS $\phi$

#### ORDCRING MODEL (SINGLE PHASE): MLY-D725PF(1P) (3 PHASE): MLY-D725PF(3P)

Feature:

- Display: 4digits. LED display (with red and green options)
- 2. Accuracy: ±(0.5% reading +3 digits)
- Auxiliary power: AC 110V ± 10% 50/60Hz or AC 110V ± 10% 50/60Hz
- Input Signal: 100V,220V,380V Current 0-1A or 0-5A is at users' option.
- 5. Measuring range: 00 -3600 phase angle.
- 6. Power Consumption: <3.2VA
- Maximum Voltage Consumption: <0.5VA Maximum Current Consumption: <0.5VA</li>
- Operating Environment: 0°C ~-40°C Relative Humidity: ≤85%
- Shelf Environment: -40°C ~+60°C Relative Humidity: ≤70%
- 10. Hi-pot Testing: AC 2000V/1min
- External Case: Made of non-flammable plastic material.
- Fixing Mode: Sliding in (MLY-D120); Din rail mode (MLY-D725)
- Imbedding Depth: 53mm (MLY-120); 65mm (MLY-D725)

#### DIGITAL POWER METER

Ordering Model: MLY-D725W (Var) Function: For measuring single phase with power, single phase without power. Feature:

- Display: 4 1/2digital LED display(with red and green options)
- 2. Accuracy:  $\pm$  (0.5% reading +3 digits)
- Auxiliary power: AC 110V ± 10% 50/60Hz and AC 220V ± 10% 50/60Hz
- Input Signal: Voltage 100V, 220V, 380V. Current 0-1A or 0-5A is at users' option.
- 5. Measuring Range: At users option.
- 6. Power Consumption: <3.2VA
- Maximum Voltage Consumption: <0.5VA Maximum Current Consumption: <0.5VA</li>
- Operating Environment: 0°C ~40°C. Relative Humidity: ≤85%
- Shelf Environment: -40°C ~+60°C Relative Humidity: ≤70%
- 10. Hi-pot Testing: AC 2000V/1 min
- External Case: Made of non-flammable white plastic material.
- Fixing Mode: Sliding in (MLY-D120); Din rail mode (MLY-D725)
- Imbedding Depth: 53mm (MLY-120); 65mm (MLY-D725)







## **DIGITAL AC/DC AMMETER & VOLTMETER**



- Function: For measuring the DC/AC current and voltage. Ordering Model: MLY-D725A/V or DC Feature: 1. Display: 3 1/2digital LED display(with red and green options) 2. Accuracy: ±(0.5% reading +2 digits)
- 3. Auxiliary Power: AC 110V ± 10% 50/60Hz or AC 220V ± 10% 50/60Hz
- Input Signal: AC/DC current and voltage.
- 5. Measuring Range: 0-20A AC, for those above
- 20A, match with current transformer;
- 0-20A DC for those above 20A, match with shunt;
- 0-600V-AC for those above 600V, match with voltage transformer.
- 0-600V-DC
- 6. Power Consumption: <3.2VA
- 7. Maximum Signal Consumption: <0.5VA
- 8. Operating Environment: 0°C~40°C. Relative Humidity: ≤85%
- 9. Shelf Environment: -40°C ~+60°C Relative Humidity: ≤70%
- 10. Hi-pot Testing: AC 2000V/1 min
- 11. External Case: Made of non-flammable plastic material.
- 12. Fixing Mode: Flush fixing with nuts.
- 13. Imbedding Depth: 43mm

# **DIGITAL FREQUENCY METER**

Ordering Model: MLY-D725F

Feature:

- 1. Display: 4digital LED display (with red and green options)
- 2. Accuracy: ±(0.1% reading +1 digits)
- 3. Auxiliary Power: AC 110V±10% 50/60Hz or AC 220V±10% 50/60Hz
- Input Signal: VC voltage, rated signal amplitude value 0-600V

optional (Input voltage error allowance: -80%, +100%)

- 5. Measuring Range: 1.000-9999Hz
- 6. Power Consumption: <3.2VA
- 7. Maximum Signal Consumption: <0.5VA
- Operating Environment: 0°C ~40°C Relative Humidity: ≤85%
- Shelf Environment: -40°C ~+60°C Relative Humidity: ≤70%
- 10. Hi-pot Testing: AC 2000V/1 min
- 11. External Case: Made of non-flammable plastic material.
- 12. Fixing Mode: Sliding in (MLY-D120); Din rail mode(MLY-D725)
- 13. Imbedding Depth: 53mm(MLY-120);65mm (MLY-D725)

