KUSAM-MECO®

An ISO 9001:2008 Company

3½ DIGIT 1999 COUNTS DIGITAL MULTIMETER + LCR METER

13 FUNCTIONS 43 RANGES

Model 306

SPECIAL FEATURES :

- **Professional Grade Rugged DMM + LCR Meter**
- **MAX HOLD facility**
- **Auto range on Frequency Range**
- **Transistor hFE test**
- **Most rugged, Easy to use hand held meter.**
- **Auto Zero Mode**
- **Low battery indication**
- **Diode Test, Continuity Test & Duty Cycle**

GENERAL SPECIFICATIONS :

- ✷ **Sensing :** Average Sensing
- ✷ **Basic Accuracy :** ± 0.5%
- ✷ **Display :** 3½ digit LCD display (1999 Counts)
- ✷ **Digit Size :** 18mm(H)
- ✷ **Low Battery Indication :** The "⊟" is displayed when the battery voltage drops below the operating level.
- ✷ **Over range Indication :** 'OL' or '-OL' is displayed.
- ✷ **Measurement rate :** 2.5 times per second, nominal
- ✷ **Operating Temperature :** 0°C ~ 40°C at < 70% R.H.
- ✷ **Storage Temperature :** -20°C to 60°C, 0 ~ 80% R.H. With battery removed from meter.
- ✷ **Power :** Single, Standard 9V battery.
- ✷ **Dimension :** 200(H) x 90(W) x 40(D)
- ✷ **Weight :** Approx. 400g. (Including battery)

SAFETY :

- **Safety : EN61010-1 Approval Protection Class II over voltage category (CAT II 1000V, CAT III 600V), Pollution Degree 2.**

ACCESSORIES :

Test leads pair, Carrying Case, Battery installed, User's Manual & One Spare fuse installed.

ELECTRICAL SPECIFICATIONS - 306

Accuracy is ± (% reading digits + number of digits) or otherwise specified, at 23°C ± 5°C

AC VOLTAGE (50Hz~500Hz)

Range	Resolution	Accuracy
200 mV	100 V	±(1.0%rdg + 4dgts)
2 V	1 mV	
20 V	10 mV	
200 V	100 mV	
750 V	1 V	±(2.0%rdg + 4dgts)

Input Impedance : 10M
Overload Protection : 500V DC or AC rms on 200mV range, 1000V DC or 750V AC rms on all other range

DC VOLTAGE

Range	Resolution	Accuracy
200 mV	100 V	±(0.5%rdg + 1dgt)
2 V	1 mV	
20 V	10 mV	
200 V	100 mV	
1000 V	1 V	

Input Impedance : 10M
Overload Protection : 500V DC or AC rms on 200mV range, 1000V DC or 750V AC rms on all other ranges

AC CURRENT(50Hz~500Hz)

Range	Resolution	Accuracy
20 mA	10 A	±(1.5%rdg + 4dgts)
200 mA	100 A	
10 A	10 mA	±(3.5%rdg + 4dgts)

Input Protection : 0.5A/250V fast blow fuse, 10A/600V fast blow ceramic fuse

DC CURRENT

Range	Resolution	Accuracy
20 mA	10 A	±(1.0%rdg + 1dgt)
200 mA	100 A	
10 A	10 mA	±(3.0%rdg + 1dgt)

Input Protection : 0.5A/250V fast blow fuse, 10A/600V fast blow ceramic fuse

CAPACITANCE

Range	Resolution	Accuracy
2 nF	1 pF	±(5.0%rdg + 10dgts)
20 nF	10 pF	
200 nF	100 pF	
2 F	1 nF	
200 F	100 nF	±(8.0%rdg + 10dgts) above 100 F

Test Frequency : 2nF, 20nF ranges 1KHz, 200nF, 2 F ranges 270Hz, 200 F range 27Hz

INDUCTANCE

Range	Resolution	Accuracy
2 mH	1 H	±(5.0%rdg + 20dgts)
20 mH	10 H	±(5.0%rdg + 10dgts)
200 mH	100 H	
2 H	1 mH	
20 H	10 mH	

Test Frequency : 2mH, 20mH ranges 1KHz, 200mH, 2H ranges 270Hz & 20H range 27Hz
Test Condition : quality factor >5 in 270Hz

RESISTANCE

Range	Resolution	Accuracy
200	0.1	±(0.8%rdg + 4dgts)
2 K	1	±(0.8%rdg + 2dgts)
20 K	10	
200 K	100	
2000 K	1 K	
20 M	10 K	+(3.0%rdg + 4dgts)
2000 M	1 M	±[(5.0%rdg-10dgts) + 10dgts]

Overload Protection : 500V DC or AC rms
Open Circuit Voltage : 0.3V DC (3.0V DC on 200 and 2000M ranges)

FREQUENCY (AUTO RANGING)

Range	Resolution	Accuracy
2 KHz	1 Hz	±(0.1%rdg + 1dgt)
20 KHz	10 Hz	
200 KHz	100 Hz	
2000 KHz	1 KHz	
15 MHz	10 KHz	

Sensitivity : 1.0V rms min
Overload Protection : 500V DC or AC rms
Effect Reading : 20-1999

DIODE TEST

Test Current	Test Voltage
1.0mA ± 0.6mA	3.0V MAX.

Overload Protection : 500V DC or AC rms
Accuracy : ±(3.0%rdg + 3dgts)

DUTY CYCLE

Range	Resolution	Accuracy
10.0%-90.0%	0.1%	±(1.0%rdg +10dgts)

Pulse Width : >10Hz, <20kHz, TTL signal
Overload Protection : 500V DC or AC rms

CONTINUITY TEST

Audible Sound Buzzer	Less than 40 ± 20

Overload Protection : 500V DC or AC rms

TRANSISTOR hFE TEST

Range	Vce	Basic DC Current
0 to 1000	<3.0V DC	Approx. 10 A DC

All Specifications are subject to change without prior notice

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