KUSAM-MECO®
An ISO 9001:2015 Company

DIGITAL MULTIFUNCTION INSULATION RESISTANCE AND CONTINUITY-VOLTAGE TESTER WITH MOV & GAS ARRESTER TESTING

THINK SAFETY
THINK KUSAM-MECO®

SPECIAL FEATURES :

MODEL KM 1152MF

- The **"KUSAM-MECO"** KM 1152MF has features for Insulation Resistance Testing, Polarisation Index measurement & Die electric Absorption ratio measurement, Voltage (AC-DC) measurements with Automatic Hold facility, Continuity Test with a short circuit current of Minimum 200mA.
- Two very unique features are found on the Multifunction Model1152MF, MOV and Gas Arrester testing.
- Today, most equipments and electrical installations are protected by MOVs and Gas arresters.
- The 1152MF can test these devices to establish if the devices are still operating correctly or not.
- Energy conservation is featured on all these new Advanced Products.
- EnerSave™ limits the test duration to about 10 Seconds to save energy.
- This new generation of test equipments have no moving parts. All calibration are saved internally in a non volatile memory.
- Their calibration interval can be extended without much problem.
- They comply to all the latest regulations, including UK 16 Edition.
- Meets IEC/EN 61010-1 CAT III 600V.







Gas Arrester



Metal Oxide Varistor

FEATURES :

- **Digital EE Calibration (No Potentiometers)**
- **Automatic Voltmeter AC/DC at Start / Reset**
- **Off Push button (press more than 5 sec on 1kV key)**
- **MOV/protection devices test**
- **Polarization Index (PI) on 250, 500 and 1000V**
- **Battery test**
- **Voltmeter on request by keypad : Automatic**
- **Auto-Discharge on all Test and all ranges**
- **Continuity Open Circuit Voltage of 5V DC**
- **Buzzer ON/OFF by key : Always ON**
- **Test Auto-Stop**
- **Re-programmable Microprocessor for Easy Updates**
- **Insulation measurement from 2kΩ (250V range) to 8GΩ (1kV Range)**
- **Continuity from 0.01Ω (220mA) to 1999Ω**
- **AC Voltmeter from 1 VAC to 700 VAC**
- **Smart Hold & stop on Voltmeter AC /DC**
- **Keypad Operation**
- **On-Reset/Restart Key**
- **Auto-Off**
- **Test ON-OFF**
- **Gas Arrester Test Function**
- **Dielectric Absorption Ratio (DAR)on 250, 500 and 1000V**
- **Battery Test at switch ON/Reset**
- **Safety Voltmeter before each Test**
- **Continuity short Circuit current >220mA (225mA Typical)**
- **Nominal Voltage @ 1mA on all Insulation Ranges**
- **Leads Auto-Null key**
- **EnerSave™**
- **Can be calibrated in ALL calibration laboratories**
- **DC Votmeter from ±1VDC to ± 950VDC**
- **Accept 8 rechargeable Batteries or Alkaline or Normal Battery.**

All Specifications are subject to change without prior notice

GENERAL SPECIFICATIONS :

- **Display** : 2 lines x 16 characters LCD
- **Auto-Null Threshold** : 5 Ω
- **Buzzer Threshold** : 3 Ω
- **Fast Test** : 10 Sec
- **Long Test** : 60 Sec
- **With PI and DAR test Function** : 10 Min
- **Load Battery Test Current** : About 300mA
- **Operating Temperature** : 1°C to 55°C (not in full sun light)
- **Storage Temperature** : -20°C to 70°C
- **Relative Humidity** : ≤ 80% R.H.
- **Open Current** : about 19.15mA
- **Consumption Current** : about 193.5mA
- **Power Source** : 1.5 x 8 (Type "AA" size alkaline)
- **Dimensions** : 175(L) x 85(W) x 75(H)mm
- **Weight** : 655g Approx. (Battery included)

SAFETY :

CE marking according to the Low Voltage Directive (73/23/eec & 93/68/eec) and EMC Directive (89/336/EEC, 92/31/EEC, & 93/68/EEC) and found to comply with the essential requirement of the directives.

IEC/EN 61010-1:2001.

EN61326+A1+A2+A3, EN55011+A1+A2, EN61000-3-2+A2, EN61000-3-3+A1+A2, EN61000-4-2+A1+A2, EN61000-4-3+A1, EN61000-4-4, EN61000-4-5+A1, EN61000-4-6+A1, EN61000-4-11

ACCESSORIES :

Test Leads (TEL-AL11-A), Shoulder belt, Instruction Manual, Batteries.

ELECTRICAL SPECIFICATIONS : KM 1152 MF

INSULATION TEST

Test Voltage (DC V)	250V / 500V / 1000V
Output Voltage @ 1mA	Rated test Voltage + 10% Max
Measuring Ranges	2K-2G / 4K-4G / 8K-8G Ω
Accuracy	<30kΩ : ± 20% rdg 30kΩ - 1MΩ : ± 5% rdg >1MΩ : ± 3% rdg
When voltage is constant, Current is Limited at	± 1.2 mA
Short Circuit Current	± 4mA Max

CONTINUITY TEST

Measuring Ranges	0.01 - 1999Ω
Accuracy	0.01 - 100Ω : ±1.0% rdg 100 - 300Ω : ± 1.5% rdg 300 - 1999Ω : ± 2.0% rdg
Short Circuit Current	> 220mA
Open Circuit Voltage	5VDC
Resolution	± 2 counts

VOLTMETER

AC Voltage (Auto)	0-700V
DC Voltage (Auto)	0-950V
Accuracy	± 1.5% of F.S.
Resolution	± 1V

MOV Test

Test Voltage	5-1020VDC
Voltage Result Accuracy	± 3%
Voltage Result Resolution	± 2 counts

GAS ARRESTER TEST

Test Voltage	5-1020VDC
Voltage Result Accuracy	± 3%
Voltage Result Resolution	± 2 counts

PROTECTIONS

Over Load	700V (between all terminals)
Over Voltage	Class III-700V towards ground
Fuses	1 x 500mA, 5 x 20mm, HBC, 600V Fast Blow

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