KUSAM-MECO®

An ISO 9001:2015 Company

HIGH PERFORMANCE HIGH VOLTAGE INSULATION RESISTANCE TESTER MODEL - KM 5310IN

THINK SAFETY
THINK KUSAM-MECO®

SPECIAL FEATURES:

- Suitable for Substations applications.
- Max Output Voltage 10KV
- Dielectric Discharge Function
- Max Test Resistance 20TΩ
- Max Short Circuit Current 7mA
- Polarization Index Test (PI)
- Dielectric Absorption Ration Test (DAR)
- Ramp Test Mode (RAMP)
- Filtered Resistance Test Mode (FR)
- True Color Touch Screen
- Large Capacity Rechargeable Lithium Battery
- USB Data upload function.
- CAT IV 600V

CAT IV 600V



Preliminary Data

FEATURES:

- The combination of touch color screen, button and wave band knob, the function perfect can be directly tested with one button, the operation of inquiry record is simple and convenient.
- Rich display content which can display on same screen : various test modes and insulation resistance value, output voltage and the voltage of tested object, current, test timing, test time, battery power, operation help, etc.
- Double shell structure, firm and durable, protection level IP65.
- Large capacity rechargeable lithium battery.
- Voltage monitor function, automatically monitor live voltage of the tested object.
- Test timer function, automatically record test time.
- Automatic discharge function, Instantaneous release the charging charge of the measured object after the test, no need to add the discharge circuit.
- Store function, automatically store 1000 groups of real-time test data with test date, time and timing.
- Upload function, the recorded data can be uploaded to the computer by USB communication cable for data statistical analysis.

PRODUCT INTRODUCTION

High Voltage Insulation Resistance Tester is an intelligent high-end insulation resistance tester. The instrument with perfect test functions of various insulation resistance parameters and excellent anti-interference ability. The instrument adopts true color touch screen, all test data and battery power are displayed on the same screen, the combination of knob switch and button makes the operation very simple. The user no need to memorize the operation method, click the "HELP" on the screen to pop up the operation method which effectively guide the user to operate the instrument. The instrument has the function of rapid discharge and automatically monitors the live voltage of the measured object. The voltage exceeds 36V will automatically prohibits the test to protect the instrument and operators effectively.

The meter automatically stores test results which contain date and time, the touch screen can very convenient to consult the recorded historical data, the fully isolated USB interface can upload the test data to the PC safely. The instrument is equipped with double insulation and shielding layer test wire, & the high voltage rod is equipped with replaceable crocodile clips and hooks, which can be used in various test places. The instrument adopt hard double-shell structure, and the meter outer case with IP65 protection level, which can prevent moisture and dust intrusion and collision during the transportation and storage process, protect the meter effectively.

PRODUCT FUNCTION

Suitable for insulation resistance testing of cable, motor, generator, transformer, mutual inductor, high voltage switch, arrester and other large equipment. Insulation resistance measurement (IR); polarization index measurement (PI); dielectric absorption ratio (DAR); ramp test mode (RAMP); Filtered resistance test mode (FR).Voltage test(V); capacity test（uF）; current test（nA）.

All Specifications are subject to change without prior notice.

Insulation Resistance Measurement Accuracy

Rate Voltage		250V	500V	1000V	2500V	5000V	10KV
Range and Accuracy	±5%	50GΩ	100GΩ	200 GΩ	500 GΩ	1 TΩ	2 TΩ
	±20%	500GΩ	1TΩ	2 TΩ	5TΩ	10TΩ	20 TΩ

Technical Specifications

Rated Voltage	250V，500V，1000V，2500V，5000V, 10KV
Output Voltage Accuracy	（5%～10%）±10V
Insulation Resistance Range	0.5MΩ～20TΩ
Output Short Circuit Current	≥7mA
Power Supply	Rechargeable lithium battery pack 6.2Ah
Polarization Index Test	Yes
Dielectric Absorption Ratio Test	Yes
Ramp Test Mode	The output voltage will start at 10% of the preset voltage and increase in steps of 10% until the preset voltage is reached
Filtered Resistance Test Mode	10S、20S、30S、40S (4 selection)
Voltage Test	Range: AC/DC 0V～1000V；Accuracy: ± 5%rdg ±3V
Current Test	Range: 0.01nA～9mA；Accuracy: ± 5%rdg ± 0.5nA
Capacitance Test	Range: 10nF～25uF；Accuracy: ± 10%rgd ±10 nF
Voltage Monitor	Monitor the voltage of the measured object, and monitor discharge status after test, Forbidden to test when voltage is larger than 36V, protect instrument and operator.
Test Timer	Automatic record test time, time range: 0s~9999s
Storage Function	Automatically store the real-time test data with test date, time and timing, total of 1000 groups
Upload Function	Upload the stored data to computer with USB communication cable.
Battery Power Indication	Yes, when battery voltage low will remind to replace the battery
Automatic Shutdown	After 15 minutes start up will shut down automatically without any operation
Meter Dimension	280mm ×260mm ×160mm
Meter Weight	4900g (include battery)
Test Wire	Red high voltage test wire 1 pcs (with alligator clip 1PCS and hook 1PCS), green test wire 1PCS, black test wire 1PCS
Protection Level	Close the case IP65; open the case IP40
Working Environment	-20℃～50℃；80%rh
Store Environment	-25℃～65℃；80%rh
Insulation Resistance	50MΩ（1000V）（between the test circuit and shell）
Withstand Voltage	AC 3KV 50Hz 1min（between the test circuit and shell）
Suitable Safety Standard	IEC61010-1，IEC61326-1
Accessories	Host: 1PCS, high voltage test wire(red): 1PCS, Test wire (green): 1PCS; Test wire (black): 1PCS; Alligator clip: 1PCS; Hook 1PCS; USB communication cable 1PCS; Software CD: 1COPY; Tool bag: 1PCS





High Voltage Test Wire Red 2.6 m
High Voltage Test Wire Black 2.6 m
High Voltage Test Wire Green 3 m

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