

LIVE LINE CLAMP INSULATION RESISTANCE TESTER

The World First Live Line Clamp Insulation Resistance Tester

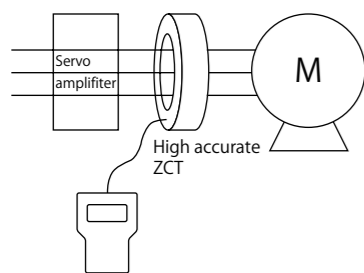
Model **MLIT-1**



FEATURES

- Easy and convenient live line insulation measurements for servomotor, equipments and power line.
- 10MΩ~20MΩ insulation resistance measurements with super accurate ZCT.
- The least influence from external magnetic field and noise.
- Phase voltage and leakage is also measurable.
- 99 sets of memory storage function for measured data.

Measuring example



For insulation resistance measurements of industrial robots



LIVE LINE CLAMP INSULATION RESISTANCE TESTER

The World First Live Line Clamp Insulation Resistance Tester

Model **MLIT-1**

PRIMARY SPECIFICATIONS

1. VOLTAGE INPUT SECTION

Voltage Input : Phase voltage (AC 50~500V)
Single phase detection
Phase Detection Method : (Single phase detection is also used for three phase circuit)
Input Impedance : More than 1MΩ
Input Frequency : 50Hz or 60Hz switchable
Resolution : 0.1V
Input Method : Direct input by test lead

2. CURRENT DETECTION SECTION

Detection Method : Split core type ZCT
CT Inside Size : φ30mm
CT Opening/Closing : Manual slide method
Withstanding Voltage : AC 2000V, 1 minute

3. MEASUREMENT SECTION

Measuring Function : AC Leakage current/line current, AC voltage, Insulation resistance
Measuring range

AC Leakage/Line Current : 0~AC 200.0μA/2mA/20mA/200mA (Auto-ranging)

AC Voltage : 0~500.0V (1 range)
Resolution

AC Leakage/Line Current : 0.1μA
AC Voltage : 0.1V

Insulation Resistance : Computation by current and voltage
Input Frequency : 45Hz 65Hz (50Hz/60Hz switchable)
A/D Conversion : Dual slope integration method
AC Conversion : Average sensing, true rms reading method
Display : LCD, max. 1999 count with annunciator
Over Range Indication : "OL" mark on LCD
Data Hold Indication : "DH" mark on LCD
Low Battery Indication : "B" mark on LCD
Sampling Rate : 2 times/sec (Without internal calibration)
Memory Storage : Measuring Data 99 sets
Operating Temperature : 0~40°C, < 85%RH (without condensation)
Storage Temperature : -10~60°C, < 70%RH (without condensation)
Withstanding Voltage : AC 2000V/1 minute (between CT and handle)
Limitation of Circuit Voltage : Less than AC 500V for insulated cable
Auto Power Off : Approx. 10 minutes after last key operation
Power Supply : LR6, AM-3 or AA size Alkaline battery×4

4. ACCURACY

Leakage (I_o), Line (I), Resistive (I_{or})

	Rang	Min Resolution	Accuracy (50/60Hz)
	Voltage	0.1V	0~499.9V±1.0%rdg±10dgt
I _o	200μA	0.1μA	0~199.9mV±1.0%rdg±10dgt
	2mA	0.001mA	0.200~1.999mV±1.0%rdg±10dgt
	20mA	0.01mA	2.00~19.99mV±1.0%rdg±10dgt
	200mA	0.1mA	20.0~220.0mV±1.0%rdg±10dgt
I _{or}	200μA	0.1μA	0~199.9mV±1.5%rdg±15dgt
	2mA	0.001mA	0.200~1.999mV±1.5%rdg±15dgt
	20mA	0.01mA	2.00~19.99mV±1.5%rdg±15dgt
	200mA	0.1mA	20.0~220.0mV±1.5%rdg±15dgt