

# LIVE LINE CLAMP INSULATION RESISTANCE TESTER

The World First Live Line Clamp Insulation Resistance Tester

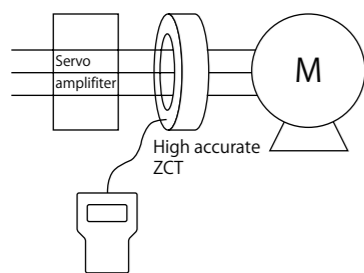
Model **MLIT-1**



## 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



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## 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<sub>o</sub>), Line (I), Resistive (I<sub>or</sub>)

	Rang	Min Resolution	Accuracy (50/60Hz)
	Voltage	0.1V	0~499.9V±1.0%rdg±10dgt
I, I <sub>o</sub>	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 <sub>or</sub>	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