True RMS

CAT IV 600V

ΗΙΟΚΙ

Safely Measure Voltage Breaker Panels

New Technology Safety Measure voltage on insulated Measure safely around metal electric cables busbars and terminals NOKI JEBE BA

Applicability

Optimized for 30-600 V AC Measurable electrical cable: 100 mm² or thicker covered (unshielded) cables (Cables thicker than 38mm² also supported at other accuracies)



HIOKI's new technology enhances voltage measurement safety

Development of the SAFETY HiTESTER 3258 opens the door to a new realm of safety by accurately measuring non-destructively through wire insulation, a particular safety concern to those who maintain and inspect electrical facilities





Get accurate measurements easily

The HiTESTER measures the voltage between two probes. To ensure accurate measurements, apply the voltage detector probes perpendicular to the object to be measured. To measure voltage to ground, apply one probe to a ground conductor.





□ HITESTER 3258 measurement principle

Measurements with traditional non-metallic-contact voltmeters and phase detectors depend on the coupling capacitance (C1 and C2) between voltage detector electrodes in the probe tips and the measurement objects. That voltage detection method can present problems due to the dependence of the coupling capacitance on the material properties of the measurement objects, making accurate voltage determination ($Vm = Vm_2 - Vm_1$) problematic.



The SAFETY HITESTER 3258 employs a new technological principle to detect accurate measurement voltage (Vm) independent of coupling capacitance.

■ Model 3258 Specifications (accuracy guaranteed for one year at 23 ±5°C and 80% rh or less)

Measurement parameter	AC voltage (AC potential bridge)					
Measurement objects	Insulated electric lines (Indoor PVC or equivalent, 100 mm ² or thicker), metal conductors Note: Not suitable for shielded cables					
Measurement values	True RMS display					
Max. rated voltage to earth	600 Vrms AC					
Circuit dynamics	Crest factor 1.8 (sine wave only at 600 V range)					
Temp. characteristics	0.05% rdg./°C					
Effect of nearby conductors	±5% rdg. or less					
Effect of external magnetic field	none					
Display	4200 counts, with less than 10 counts zero-suppressed					
Display refresh rate	sh rate Approx. once every 0.6 seconds					
Display response time	2.4 s or less					
Functions	Data Hold, Auto Power Shutoff, Low-Battery Warning					
Operating temp. & humidity	y 0 to 40°C, 80% rh or less, non-condensating					
Storage temp. & humidity	-10 to 50°C, 80% rh or less, non-condensating					
Operating environment	Indoors, up to 2000 m ASL					
Applicable standards	Safety: EN61010, EMC: EN61326					
Power supply	Six AA (LR6) alkaline batteries, Max. operating time: approx. 14 h (power on, no input), or the equivalent of 1000 one-minute operations or 200 five-minute operations					
Max. rated power	2 VA					
Dimensions and mass	sions and mass $51W(2.01") \times 275H(10.83") \times 37.5D(1.48")$ mm (per probe), Cable length: 900 mm (35.43"), 670 g (23.6 oz.) (including batteries)					

AC Voltage Measurement Accuracy (on insulated PVC cables or equivalent, 100 mm² or thicker)

Ranges	Displayable	Display	Range of guaranteed	Accuracy	
(auto-ranging)	range	resolution	accuracy	40 to 66 Hz	66 to 400 Hz
420.0 V	0.0 to 420.0 V	0.1 V	30.0 to 420.0 V	±1.5% rdg. ±5 dgt.	±2.5% rdg. ±5 dgt.
600 V	380 to 600 V	1 V	380 to 480 V	±2.0% rdg. ±5 dgt.	
			481 to 600 V	±5.0% rdg. ±5 dgt.	

For insulated IV/CV cables or equivalent between 38mm² and 100mm², add 0.5% rdg. to standard accuracy.



Model : SAFETY HITESTER 3258

Model No. (Order Code) 3258

Accessories: Instruction manual ×1, LR6 (AA) alkaline battery ×6, Soft carrying case ×1



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Supplied Accessory: soft case

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