

SAFETY HITESTER 3258

Field Measuring Instruments



Safely Measure Voltage Breaker Panels

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■ New Technology

Measure voltage on insulated electric cables

■ Safety

Measure safely around metal busbars and terminals





■ 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)







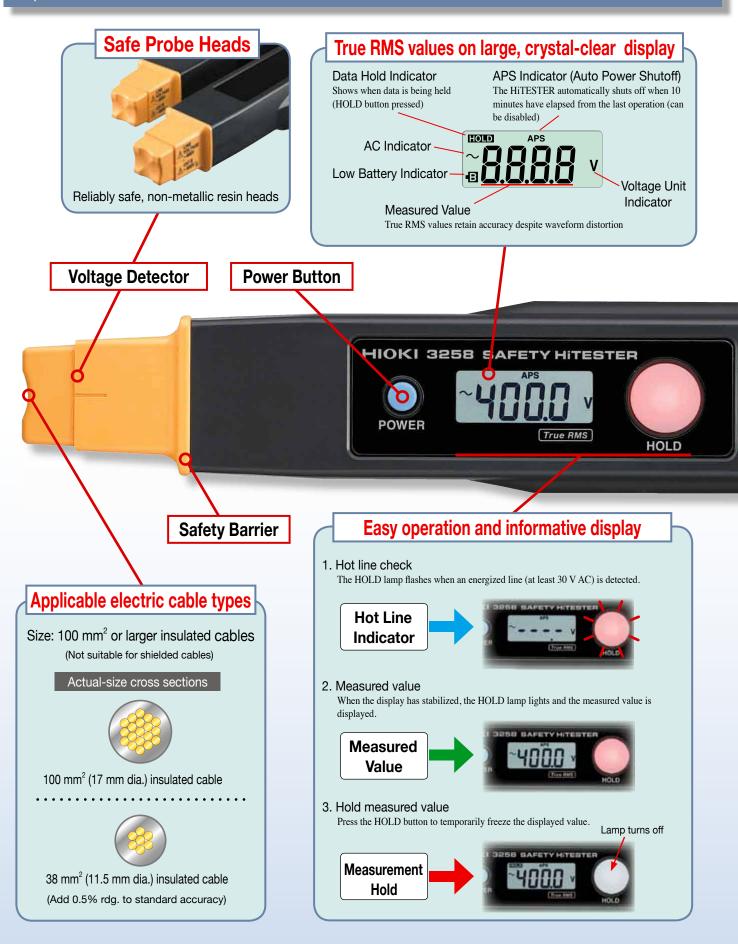




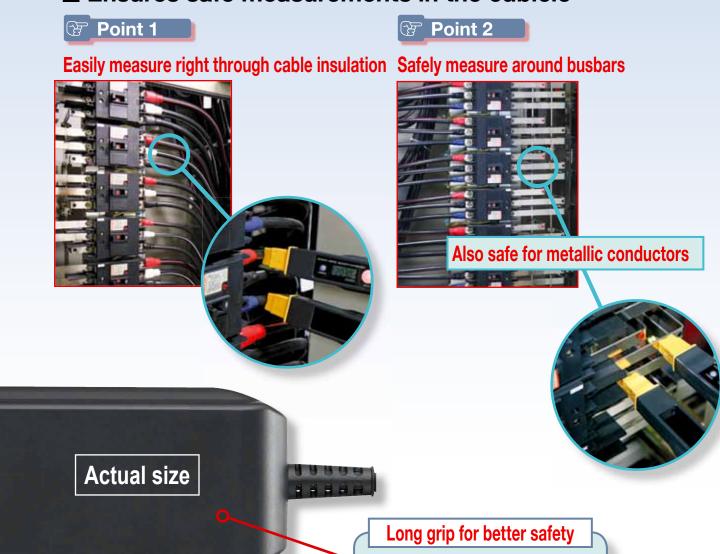


HIOKI's new technology enhances voltage measurement safety

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



■ Ensures safe measurements in the cubicle

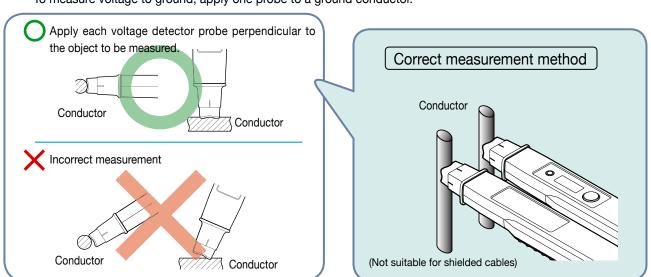


■ Get accurate measurements easily

The HiTESTER measures the voltage between two probes. To ensure accurate measurements, apply the voltage detector probes perpendicular to the object to be measured.

Safely measure 380-480 V AC lines

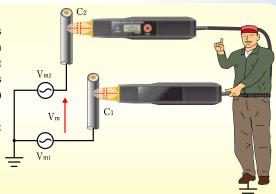
To measure voltage to ground, apply one probe to a ground conductor.



☐ 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)

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Measurement parameter	AC voltage (AC potential bridge)			
Measurement objects	Insulated electric lines (Indoor PVC or equivalent, 100 mm² 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	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	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	51W(2.01") × 275H(10.83") × 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	Accı	uracy
(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.

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



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