

SAFETY HITESTER 3258

Field Measuring Instruments

1

Safely Measure Voltage Breaker Panels

New Technology

Measure voltage on insulated electric cables

Safety

Measure safely around metal busbars and terminals

HIOKI 3258 SAFETY HITESTER

True RMS

CAT IV 600V

POWER

CE

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)



JMI-0216

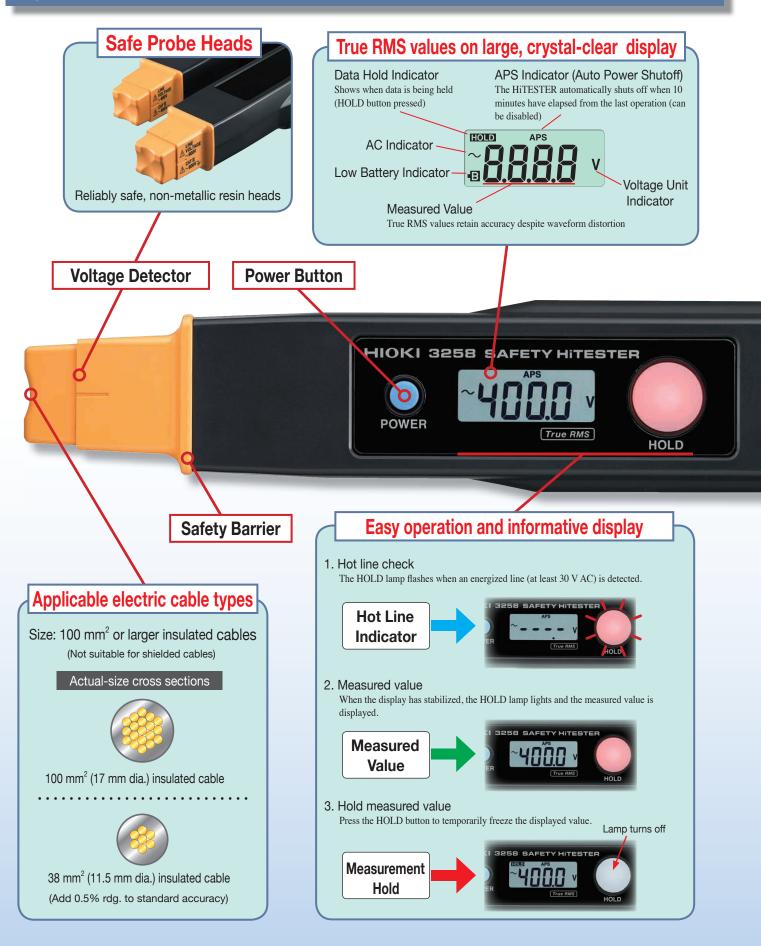


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HIOKI's new technology enhances voltage measurement safety

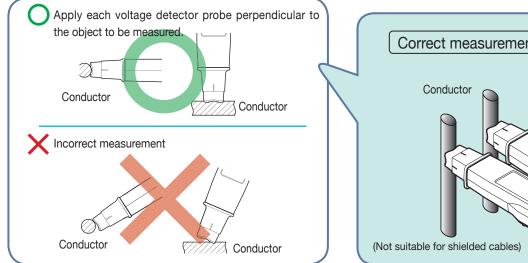
Development of the SAFETY HITESTER 3258 opens the door to a new realm of safety by accurately measuring non-destructively through wire insulation, a particular safety concern to those who maintain and inspect electrical facilities

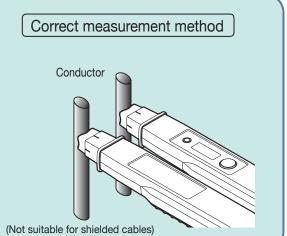




Get accurate measurements easily

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.

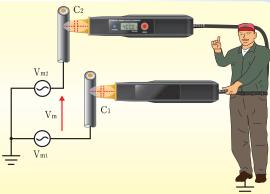




□ HITESTER 3258 measurement principle

Measurements with traditional non-metallic-contact voltmeters and phase detectors depend on the coupling capacitance (C_1 and C_2) 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.



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 Crest factor 1.8 (sine wave only at 600 V range)				
Circuit dynamics					
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 source	urce 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				
Size and weight	eight 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)				

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

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.		
	380 to 600 V	I V	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.

SAFETY HITESTER 3258

Supplied Accessories: One manual, one soft case and six AA (LR6) batteries



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