



SAFETY HITESTER 3258

Field Measuring Instruments



Safely Measure Voltage Breaker Panels

■ 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: 38 mm² or larger insulated wires (100 mm² or larger recommended)







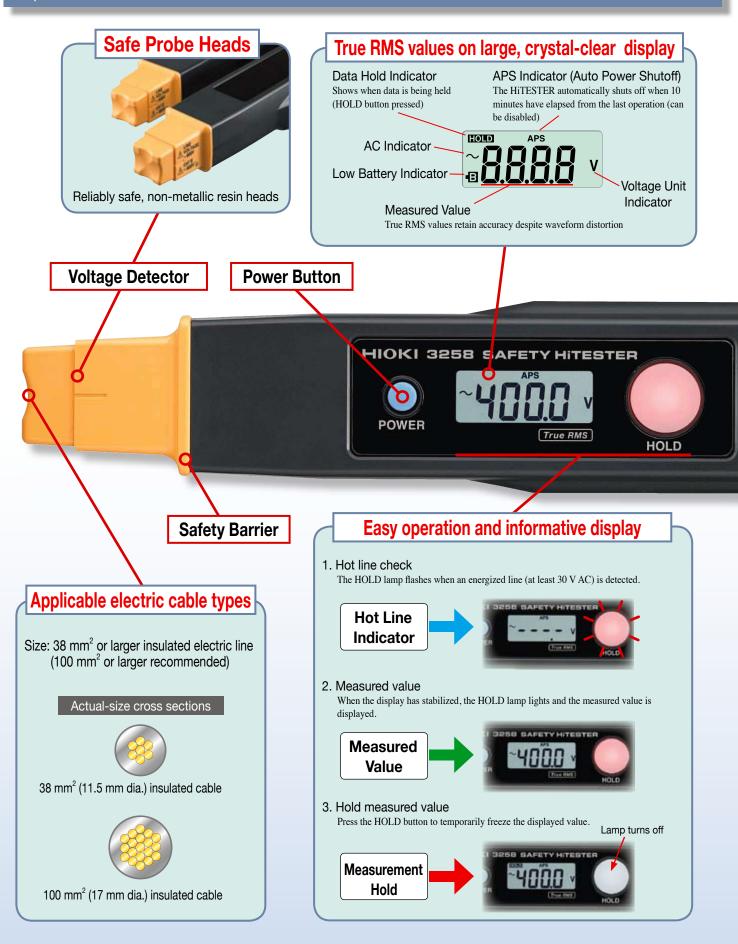




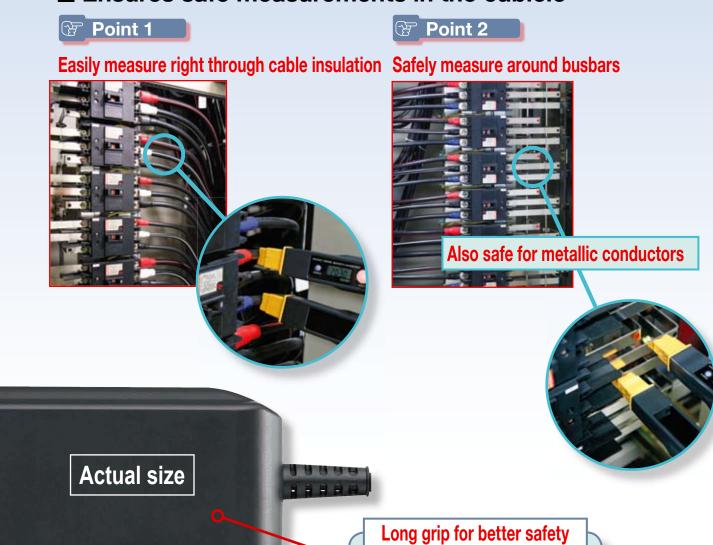


HIOKI's new technology enhances voltage measurement safety

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

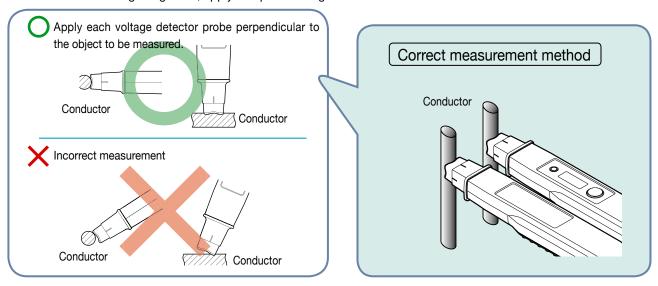


■ Get accurate measurements easily

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

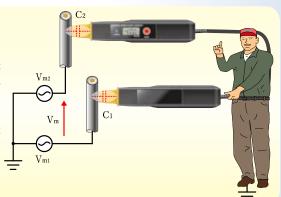
To measure voltage to ground, apply one probe to a ground conductor.



☐ 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)

Measurement parameter	AC voltage (AC potential bridge)		
Measurement objects	Insulated electric lines (Indoor PVC or equivalent, 100 mm2 or larger), 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 conductor diameter	0.5% rdg. (add to measurement accuracy for 38 to $100~\text{mm}^2$ insulated cables)		
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	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	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 larger)

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.	



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





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