



SAFETY HITESTER 3258

Field Measuring Instruments

Safe Voltage Measurement in Breaker Cubicles

New Technology

Measure voltage on insulated electric cables

Safety

Measure safely around metal busbars and terminals

אוסגו שפפנ ואסוא הארפידוא ירישיגב

OWER

Applicability

Optimized for 380-480 V AC lines

Measurable electrical cable: 38 mm² or larger insulated wires (100 mm² or larger recommended)

RIGHT RUMENTS

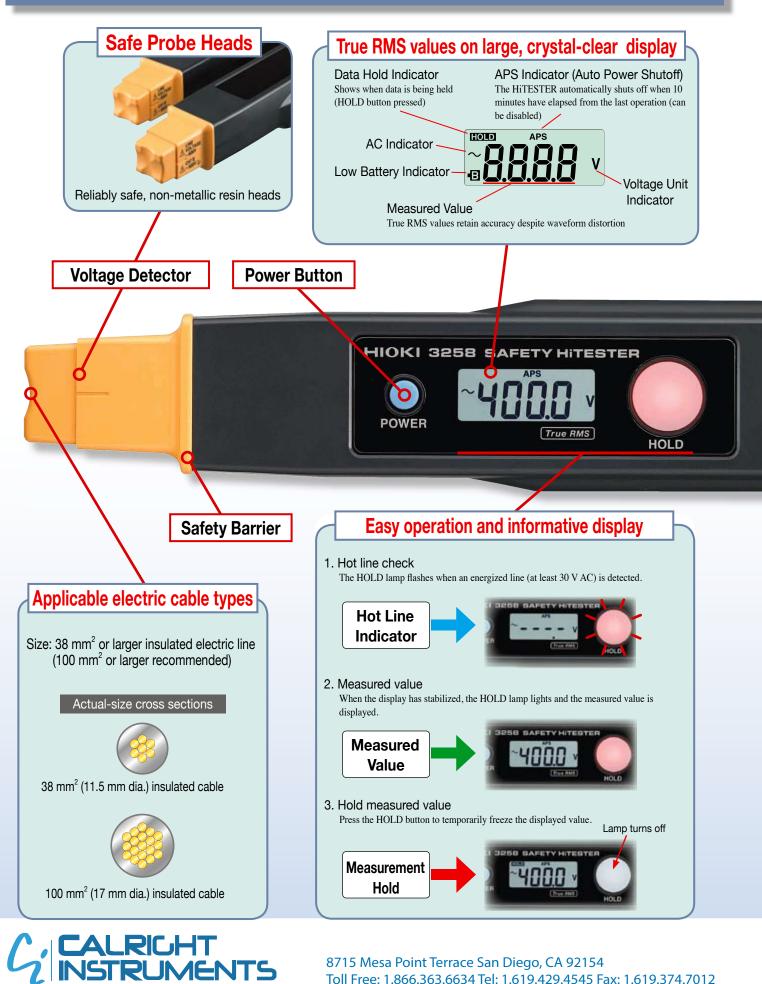
The Right Source For Your Test & Measurement Needs

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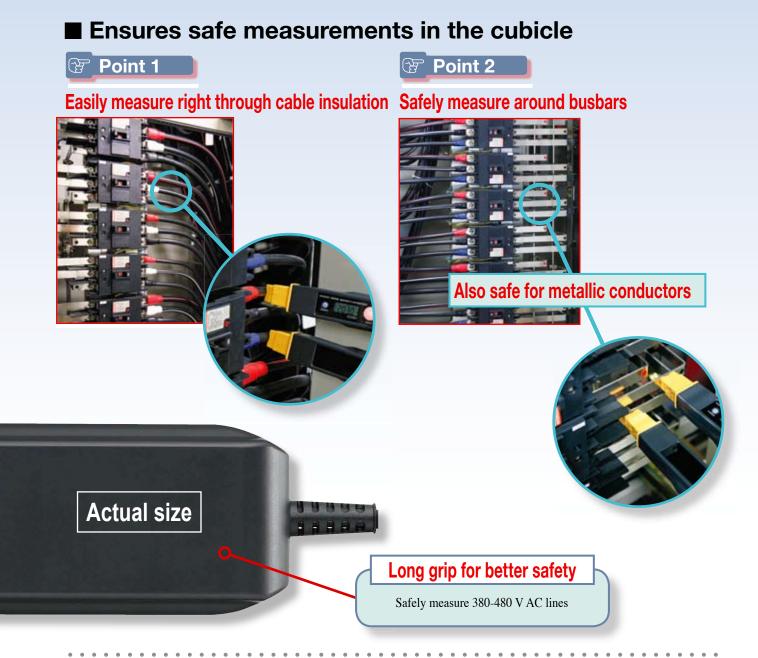
HIOKI's new technology enhances voltage measurement safety

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



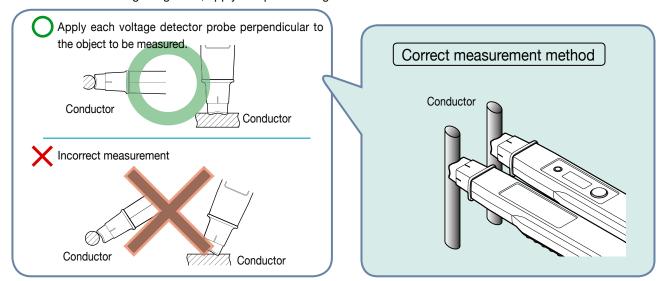
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Get accurate measurements easily

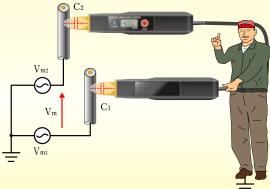
The HiTESTER measures the voltage between two probes. To ensure accurate measurements, apply the voltage detector probes perpendicular to the object to be measured. To measure voltage to ground, apply one probe to a ground conductor.



Hitester 3258 measurement principle

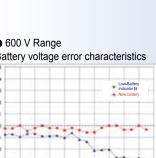
Measurements with traditional non-metallic-contact voltmeters and phase detectors depend on the coupling capacitance (C1 and C2) between voltage detector electrodes in the probe tips and the measurement objects. That voltage detection method can present problems due to the dependence of the coupling 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.



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 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	 600 V Range Battery voltage error characteris
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	[8]. 69
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)	

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



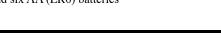
Accuracy not guaranteed when the B indicator is ON.

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.	

SAFETY HITESTER 3258 Supplied Accessories: One manual, one soft case and six AA (LR6) batteries







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