

# HIOKI

2003

**New**

## 3255-50 DIGITAL HiTESTER

Field measuring instruments



# Tough DMM for industrial use



Combine with  
**CLAMP ON PROBE**

for AC current measurement



Actual-size



CAT III 600V  
CAT II 1000V



ISO14001  
JQA-E-90091



<http://www.hioki.co.jp/>

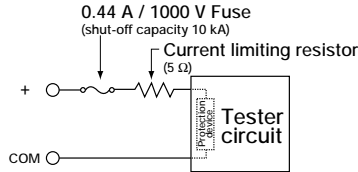
HIOKI company overview, new products, environmental considerations and other information are available on our website.

# For industrial power lines

## Safety Measures

- Dust-proof and water-proof construction (IP54)
- Polarized terminal design prevents incorrect insertion of test leads
- Internal current-limiting resistor and fuse protect against operating errors and catastrophic failures

In addition to internal circuitry to protect against connection errors during use, the current-limiting resistor and fast-blow fuse

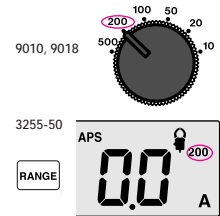


protect against short-circuit conditions in the unlikely event of catastrophic failure of the tester circuit: short-circuit current is limited until interruption by the fuse, rated for up to 10 kA.

\*If voltage is applied to the test leads while in the resistance measurement mode, as long as it is within the measurement category (CAT III 600 V, or CAT II 1000 V), protective components in the tester circuitry prevent the fuse from opening.

## Enhanced Convenience

- Safe and simple  
AC load current measurement by optional CLAMP-ON PROBE



Set the clamp range to match the range of the 3255-50

- Option

CLAMP ON PROBE	9010	9018
<b>R a n g e</b>	AC 10/20/50/100/200/500 A	
Accuracy(45 - 66 Hz)	±3 % f.s.	±1.5 %rdg. ±0.1% f.s.
Frequency characteristic	40 Hz to 1 kHz: ±6 %	40 Hz to 3 kHz: ±1 %
<b>Output voltage</b>	AC 0.2 V f.s.	
Max. rated voltage to earth	600 V rms (insulated conductor)	
Meas. conductor dia.	φ 46 mm, 50 × 20 mm busbar	
Dimensions and mass	74W × 184H × 37D mm, 420 g(9010), 410 g(9018) Lead length approx. 3 m	

### 3255-50 specifications (Accuracy at 23°C±5°C (73°F±9°F), 80% rh or less)

	Range	Accuracy		Notes	Overload protection
		DC	AC 50Hz to 500Hz		
<b>AC / DC voltage</b>	420.0 mV	±1.0 % rdg.	±2.0 % rdg.	Input impedance Approx. 10 MΩ	1000 V DC/AC rms(sin) or 10 <sup>7</sup> V·Hz, 1 minute Current limiting resistor: 5 Ω, Fuse: 0.44 A / 1000 VAC/DC (shut-off capacity 10 kA)
	4.200 V	±4 dgt.	±4 dgt.		
	42.00 V	±0.5%rdg.±4dgt.	±1.1%rdg.±4dgt.		
	420.0 V	±0.7 % rdg.	±1.5 % rdg.		
	1000 V	±4 dgt.	±4 dgt.		
<b>AC current</b> <small>Clamp sold separately</small>	10.00 A	Main unit Accuracy ±2.0 % rdg. ±4 dgt. (50Hz to 500Hz) Add the accuracy of clamp sensor		Input impedance Approx. 10 MΩ	
	20.00 A				
	50.0 A				
	100.0 A				
	200.0 A				
	500 A				
	1000 A				
<b>Resistance</b>	420.0 Ω	±1.0 %rdg. ±8 dgt.	3.4 Vmax.	Open-circuit terminal voltage Approx. 0.7 V	
	4.200 kΩ	±0.7 %rdg. ±4 dgt.	Approx. 0.5 V		
	42.00 kΩ	±1.0 %rdg. ±4 dgt.			
	420.0 kΩ	±1.0 %rdg. ±4 dgt.			
	4.200 MΩ	±2.0 %rdg. ±4 dgt.			
	42.00 MΩ	±5.0 %rdg. ±4 dgt.			
<b>Continuity</b> (420.0 Ω)	A built-in buzzer sounds when the resistance value is less than 45 Ω ± 35 Ω (±1.0 %rdg., ±8 dgt.)		Open-circuit terminal voltage 3.4 Vmax.		
<b>Diode</b> ➔	Judgment (0.15 V to 2.00 V)		Open terminal voltage/current 3.4 V/850 μA max.		

- AC Measurement: average value
- Ancillary functions: automatic and manual range, data hold, auto power save, battery life warning
- Display: 4199 max. (1099 for 1000 V range)
- Sampling rate: 2.5 samples/sec
- Applicable standards: Safety - EN61010 CAT III 600V, CAT II 1000 V, EMC - EN61326, Dust-proof and water-proof structure - EN60529 IP54
- Ambient temperature / humidity: 0 to 40°C (32°F to 104°F) 80% rh (no condensation)
- Storage temperature/ humidity range: -20 to 40°C (-4°F to 104°F) 80% rh / 40 to 60°C (104°F to 140°F) 70% rh (no condensation)
- Power source: R03 manganese battery X2 or LR03 alkaline battery X2
- Continuous operation: In DC voltage approx. 200 hours (with manganese batteries), approx. 500 hours or more (with alkaline batteries)
- Dimensions and Mass: Approx. 70 W X 145 H X 31 D mm, approx. 200g (Approx 2.8" W X 5.8" H X 1.3" D, 7.1 oz.) (including batteries)



Includes 9207-10 TEST LEAD and 9371 CARRYING CASE

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