

# HIOKI



## ANALOG MΩ HiTESTER 3490

Field measuring instruments



### 3-range

# INSULATION & CONTINUITY



**3Ω range, 200mA**  
**EN 61557**  
**equivalent to IEC 61557**

**Bright LED**



**OPTION**

TEST LEAD WITH  
REMOTE CONTROL SWITCH 9788

## Insulation Testing in 3 Easy Steps

**Flip the Cover, Select Range & Test**



ISO 9001  
JMI-0216



ISO 14001  
JQA-E-90091



[www.hioki.com](http://www.hioki.com)

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



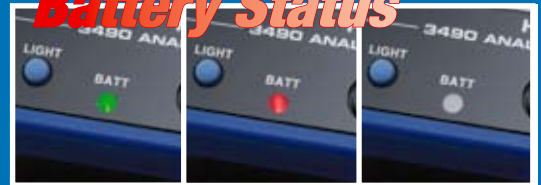
# Luminous Scale

## Check for Live Circuits



The LIVE CIRCUIT LED will light up in red whenever the voltage exceeds 20V AC between the LINE and EARTH terminals, and when at least 20V DC is still remaining during the auto discharge.

## Check the Battery Status



**BATT : Hi** **BATT : Lo** **BATT : Dead**

Be well-informed about the condition of your batteries. Green signals that the battery level is sufficiently high, and red warns of low battery power. Replace the batteries before the LED turns completely off.

### General Specifications

Power source	Rated power voltage: 1.5 VDC × 4, LR6 alkaline battery × 4
Continuous operating time	Approx. 20 hours (at 500V range, no load)
Auto Power Save	Approx. 15 minutes
Operating Temperature & Humidity	0 to 40°C (32 to 104°F), 90%RH or lower (non-condensating) 40 to 50°C (104 to 122°F), at 50°C and below relative with linear decrease up to 50%RH
Storage Temperature & Humidity	0 to 50°C (32 to 122°F), 90%RH or lower (non condensating)
Maximum rated voltage to earth	600 VAC, Measurement Category III, Anticipated Transient Overvoltage: 6000V
Dielectric strength	5312 VAC, 50/60Hz, Measurement terminals - electrical enclosure, current sensitivity 1 mA
Standards	Safety EN61010, EMC EN61326, EN61557-1/-2/-4
Drop Proof	On concrete: 1m/1 time
Dimensions (excluding protrusions)	Approx. 159W × 177H × 53D mm (6.26"W × 6.97"H × 2.09"D)
Mass	Approx. 610g (21.5 oz.) (including battery, not including test lead)
Accessories	9787 Test Lead, Instruction manual, Shoulder strap, LR6 alkaline battery × 4

**3490 specifications** Guaranteed for one year at 23°C±5°C (73°F±9°F) and 90% RH

	Rated output voltage		250 V DC	500 V DC	1000 V DC	
	Insulation Resistance Measurement	Effective maximum indicated value	100 MΩ		4000 MΩ	
Center scale value		1 MΩ		50 MΩ		
1st effective measuring range		0.05 to 50 MΩ		2 to 1000 MΩ		
		±5% of indicated value				
2nd effective measuring range		0.01 to 0.05 MΩ		0.5 to 2 MΩ		
		50 to 100 MΩ		1000 to 4000 MΩ		
±10% of indicated value						
Open circuit voltage		1 to 1.2 times of rated output voltage				
Lower limit measurement resistance value to be maintained reted output voltage	0.25 MΩ	0.5 MΩ	1 MΩ			
Rated current	1mA (Tolerance: 1 to 1.2 times of the rating value)					
Overload protection	1200V AC (10 sec.)					
Resistance Measurement	Ranges	3Ω		30Ω		
	Center scale value	1.5Ω		15Ω		
	Accuracy	±0.09Ω		±0.9Ω		
	Open-circuit voltage	4.1 to 6.9 V				
	Measuring current	200mA DC or more		20mA DC or more		
	Overload protection	720V AC (10 sec., by Fuse)				
AC voltage Measurement	Measuring range	0 to 600 V (50/60 Hz)				
	Accuracy	±5% of maximum scale value				
	Input resistance	100 kΩ or more (50/60Hz)				
	Overload protection	1200V AC (10 sec.)				

### Accessories

TEST LEAD 9787 (1.2m)



### Options

TEST LEAD WITH REMOTE CONTROL SWITCH 9788 (1.2m)



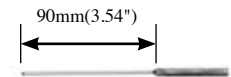
TEST PROBE 9294 (1.2m)



CONNECTION CORD 9257 (1.3m)



BREAKER PIN 9288 (for Model 9294)



HIOKI E. E. CORPORATION

#### HEAD OFFICE :

81 Koizumi, Ueda, Nagano, 386-1192, Japan  
TEL +81-268-28-0562 / FAX +81-268-28-0568  
E-mail: os-com@hioki.co.jp

#### HIOKI USA CORPORATION :

6 Corporate Drive, Cranbury, NJ 08512 USA  
TEL +1-609-409-9109 / FAX +1-609-409-9108  
E-mail: hioki@hiokiusa.com

HIOKI (Shanghai) Sales & Trading Co., Ltd. :  
1608-1610 Shanghai Times Square Office, 93 Huai Hai Zhong Road, Shanghai, P.R.China POSTCODE: 200021  
TEL +86-21-6391-0090/0092 FAX +86-21-6391-0360  
E-mail: info-sh@hioki.com.cn

#### Beijing Office :

A-2602 Freetown, 58 Dong San Huan Nan Road Beijing, P.R.China POSTCODE: 100022  
TEL +86-10-5867-4080/4081 FAX +86-10-5867-4090  
E-mail: info-bj@hioki.com.cn

#### Guangzhou Office :

Room A-3206, Victory Plaza Services Center, No.103, Tiyyuxi Road, Guangzhou, P.R.China POSTCODE: 510620  
TEL +86-20-38392673/2676 FAX +86-20-38392679  
E-mail: info-gz@hioki.com.cn

DISTRIBUTED BY