

# HIOKI



## ANALOG MΩ HiTESTER 3490

Field measuring instruments



### 3-range

# INSULATION & CONTINUITY

## 3Ω range, 200mA



### 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



ISO14001  
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.



## 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
Drop Proof	On concrete: 1m/1 time
Dimensions (excluding protrusions)	Approx. 159W × 162H × 48D mm (6.26"W × 6.38"H × 1.89"D)
Mass	Approx. 550g (19.4 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	
2nd effective measuring range		0.01 to 0.05 MΩ 50 to 100 MΩ		0.5 to 2 MΩ 1000 to 4000 MΩ	
Open circuit voltage		±5% of indicated value			
Lower limit measurement resistance value to be maintained reted output voltage		±10% of indicated value			
Rated current		1 to 1.2 times of rated output voltage			
Overload protection		0.25 MΩ	0.5 MΩ	1 MΩ	
Resistance Measurement	Rated current	1mA (Tolerance: 1 to 1.2 times of the rating value)			
	Overload protection	1200V AC (10 sec.)			
	Ranges	3Ω		30Ω	
	Center scale value	1.5Ω		15Ω	
	Accuracy	±0.09Ω		±0.9Ω	
	Open-circuit voltage	4.1 to 6.9 V			
AC voltage Measurement	Measuring current	200mA DC or more		20mA DC or more	
	Overload protection	720V AC (10 sec., by Fuse)			
	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)



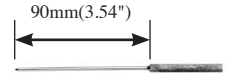
TEST PROBE 9294 (1.2m)



CONNECTION CORD 9257 (1.3m)



BREAKER PIN 9288 (for Model 9294)



# HIOKI

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. :

1904 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.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.cn

#### Guangzhou Office :

Room 303, Profit Plaza, No.76, West Huangpu Road  
Guangzhou, P.R.China POSTCODE: 510623  
TEL +86-20-38392673/2676 FAX +86-20-38392679  
E-mail: info-gz@hioki.cn

DISTRIBUTED BY