

ANALOG M Ω HITESTER SERIES

Field measuring instruments



Models IR4016-20, IR4017-20, IR4018-20, 3490



Built for the Field

LIGHT

See better in the dark

Luminous Scale



Bright LED

- · Work safely knowing that when the RED is lit, live wires, high voltage or electrical discharge is present
- The super bright light at the tip of the optional 9788 Test Leads adds to efficiency





Check the Battery Status

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.







BATT: Dead

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.



TEST LEAD WITH REMOTE CONTROL SWITCH



REMOTE CONTROL SWITCH

- Start and stop the test at the touch of a button
- Test for insulation resistance single-handedly

LED LIGHT

 Illuminate the test location with a bright white LED

MEASURE SWITCH

 Ergonomic design lets you start and stop tests with a single press



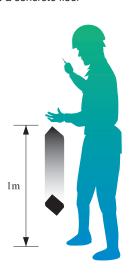
Simply flip the switch to measure continuously







Testers are built tough to withstand a 1-meter drop onto a concrete floor



Model Line-up

At A Glance

MODEL	Insulation Resistance			Resistance	AC voltage
	250V	500V	1000V	Measurement	Measurement
IR4016-20	_	100MΩ	_	_	600V AC
IR4017-20	_	1000MΩ	_	_	600V AC
IR4018-20	_	_	2000MΩ	_	600V AC
3490	100MΩ	100MΩ	4000MΩ	$3\Omega, 30\Omega$	600V AC

Single range

Models IR4016-20, IR4017-20, IR4018-20



Rated output voltage
Effective maximum indicated value

3-range

Model 3490

INSULATION & CONTINUITY

Rated output voltage 250V / 500V / 1000V



Easy-to-Read Scale

The 250V and 500V ranges share a common 100M $\!\Omega_{\!_{1}}$ making the display completely clean and uncluttered

SCALE 250V/ $50M\Omega$ 500V/ $100M\Omega$

→ 100MΩ

4000MΩ Scale at the 1000V Range

 3Ω range, 200mA EN 61557

Checks ground wire continuity with current of 200mA

Also capable of testing the continuity of electrical grounds in accordance with EN 61557

Accessories



Conforms to safety standard IEC61010-031 (revised) for hand-held probes

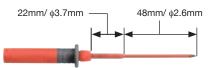


included as a standard accessory (This sleeve cannot be attached to previous products)

When measuring in a CAT III environment, be sure toattach the sleeve to the test leads.

Options

BREAKER PIN L9787-91 (for Model L9787)



Extra long tips extend deep into the breaker openings for more reliable testing



TEST LEAD WITH REMOTE CONTROL SWITCH **L9788-10** (1.2m)

L9788-90 (for Model L9788-10)

When measuring in a CAT III

environment, be sure to attach

35mm/ 63.2mm

Sleeve

the sleeve to the test leads.



MAGNETIC ADAPTER 9804-02

Magnetic tip for use with the standard Models L9788-11, L9788-10, L9787 (generally compatible with M6 pan screws)



General Specifications

Rated power voltage: 1.5 VDC x 4, LR6 alkaline battery x 4		
Approx. 20 hours (at 500V range, no load) *1		
Approx. 15 minutes		
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		
-10 to 50°C (14 to 122°F), 90%RH or lower (non-condensating)		
600 VAC, Measurement Category III, Anticipated Transient Overvoltage: 6000V		
5312 VAC, 50/60Hz, Measurement terminals - electrical enclosure, current sensitivity 1 mA		
Safety EN61010, EMC EN61326 *3490 only: EN61557-1/-2/-4 *IR4016-20, IR4017-20, IR4018-20: EN61557-1/-2		
On concrete: 1m/1 time		
Approx. 159W × 177H × 53D mm (6.26"W × 6.97"H × 2.09"D)		
Approx. 610g (21.5 oz.) (including battery, not including test lead)		
Test lead L9787 x 1, Instruction manual x 1, Shoulder strap x 1, LR6 alkaline battery x 4		

^{*1} IR4018-20:15 hours

□ 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 ΜΩ		4000 MΩ	
	Center scale value			50 MΩ	
		1 ΜΩ			
	1st effective	0.05 to 50 MΩ		2 to 1000 MΩ	
	measuring range	±5% of indicated value			
	2nd effective	0.01 to 0.05 M Ω 50 to 100 M Ω		0.5 to 2 M Ω 1000 to 4000 M Ω	
	measuring range	±10% of indicated value			
	Open circuit voltage	1 to 1.2 times of rated outp		out voltage	
	Lower limit measurement resistance value to be maintained reted output voltage	0.25 ΜΩ	0.5 ΜΩ	1 ΜΩ	
	Rated current	1mA (Tolerance: 1 to 1.2 times of the rating value)		f the rating value)	
	Overload protection	1200V AC (10 sec.)			
	Ranges 3Ω			30Ω	
	Center scale value	value 1.5Ω		15Ω	
Resistance	Accuracy	±0.09Ω		±0.9Ω	
measurement	Open-circuit voltage	4.1 to 6.9 V			
	Measuring current 200mA DC or me		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.)			

☐ IR4016-20, IR4017-20, IR4018-20 specifications

Guaranteed for one year at 23°C±5°C (73°F±9°F) and 90% rh

	Model	IR4016-20	IR4017-20	IR4018-20
Insulation resistance measurement	Rated output voltage	500 V DC	500V	1000 V DC
	Effective maximum indicated value	100 MΩ	1000 MΩ	2000 MΩ
	Center scale value	2 MΩ	20 MΩ	50 MΩ
	1st effective	0.1 to $50~\mathrm{M}\Omega$	1 to 500 MΩ	2 to 1000 MΩ
	measuring range	±5% of indicated value		
	2nd effective	0.01 to 0.1 MΩ 50 to 100 MΩ	0.5 to 1 MΩ 500 to 1000 MΩ	1 to 2 MΩ 1000 to 2000 MΩ
	measuring range	±10% of indicated value		
	Open circuit voltage 1 to 1.2 times of rated output v			oltage
	Lower limit measurement resistance value to be maintained reted output voltage	0.5 ΜΩ	0.5 ΜΩ	1 MΩ
	Rated current	1mA (Tolerance: 1 to 1.2 times of the rating value)		
	Overload protection	600V AC (10 sec.)		1200V AC (10 sec.)
AC voltage measurement	Measuring range	0 to 600 V (50/60 Hz)		
	Accuracy ±5% of maximum scale value			lue
	Input resistance	500 k Ω or more (50/60Hz)		
	Overload protection	600V AC (10 sec.)	1200V AC (10 sec.)

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