

# IR4000series

Single-range Analog



Luminous Scale

See better in the dark

Check the Battery Status

Check for Live Circuits

# 3455

5kV Insulation Tester



Safety shutter keeps temperature and power terminals away from high voltage contact

Automatically calculate and display PI (Polarization Index) and DAR (Dielectric Absorption Ratio)

Step voltage testing, temperature compensation, temperature measurement, and leakage current

Store up to 100 sets of insulation data and send to PC via USB interface and free software

# 3454

1kV Insulation Tester

Bright red light warns of live voltage



3 ranges + 200mA continuity testing

Store test leads while connected plus Innovative sliding cover system

Precise taut-band movement gives quick readings

# 3490

Multi-range Analog



Optional lighted remote control test lead makes testing even faster

Constant battery check

# 3451

Single-range Analog



Glow-in-the-dark scale

Precise tautband movement gives quick readings

Choose from 5 models

# 3453

1kV Insulation Tester



Large, easy-to-read display

Bar graph

4 ranges

Store up to 20 sets of data

# 3143

Earth Testing



No grounding rods required

- ▶ 20 to 500Ω
- ▶ Voltage comparison method
- ▶ 3.6m AC A measurement current

2-pole or 3-pole method for testing earth resistance





Selectable frequency range






- ▶ 10 to 1000Ω
- ▶ 2-wire measurement method on 100Ω & 1000Ω ranges
- ▶ 15m AC A measurement current

# 3151

Earth Testing



	Analog			
	Single Range			Multi-range
				
	<b>IR4016-20</b>	<b>IR4017-20</b>	<b>IR4018-20</b>	<b>3490</b>
<b>Insulation Resistance Measurement</b>				
<b>Testing voltage</b>	500V DC	500V DC	1000V DC	250V/100 MΩ 500V/100 MΩ 1000V/4000 MΩ
<b>Rated resistance</b>	/100 MΩ	/1000 MΩ	/2000 MΩ	
<b>Center scale value</b>	2 MΩ	20 MΩ	50 MΩ	1 MΩ (250/500V) 50 MΩ (1000V)
<b>1st effective measuring range</b>	0.1 to 50 MΩ	1 to 500 MΩ	2 to 1000 MΩ	0.05 to 50 MΩ (250/500V) 2 to 1000 MΩ(1000V)
	±5% of indicated value			
<b>Open circuit voltage</b>	1 to 1.2 times of rated output voltage			
<b>Rated current</b>	1mA (Tolerance: 1 to 1.2 times of the rating value)			
<b>Overload protection</b>	600V AC (10 sec.)		1200V AC (10sec.)	1200V AC (10sec.)
<b>AC voltage Measurement</b>				
<b>Measuring range</b>	0 to 600 V (50/60 Hz)			
<b>Accuracy</b>	±5% of maximum scale value			
<b>Input resistance</b>	500 kΩ or more (50/60Hz)			100 kΩ or more (50/60Hz)
<b>Overload protection</b>	600V AC		1200V AC (10sec.)	

	Digital				Analog
	Multi-range				Single Range
					
	<b>3455</b>	<b>3453</b>	<b>3454-11/51</b>	<b>3454-10</b>	<b>3451-XX</b>
<b>Insulation Testing</b>					
<b>50V</b>				200.0MΩ	
<b>125V</b>		20.00MΩ		200.0MΩ	3451-11 (20MΩ)
<b>250V</b>	250GΩ	2000MΩ	500.0MΩ	2000.0MΩ	3451-12 (50MΩ)
<b>500V</b>	500GΩ	2000MΩ	500.0MΩ	2000.0MΩ	3451-13 (100MΩ)
<b>500V</b>					3451-14 (1000MΩ)
<b>1000V</b>	1.00TΩ	4000MΩ	4000.0MΩ		3451-15 (2000MΩ)
<b>2500V</b>	2.50TΩ				
<b>5000V</b>	5.00TΩ				
<b>Short Circuit Current</b>	2mA	1.2mA	1.2mA		1.2mA (0.6mA max at 500 and 1000 V range)
<b>Best Accuracy</b>	±5% rdg. ±5dgt.	±2% rdg. ±3dgt.	±3% rdg. ±4dgt.		±5% of indicated value
<b>AC Voltage Testing</b>	50 to 750V	0 to 600V	0 to 750V		0 to 250/300/500V
<b>DC Voltage Testing</b>	±50V to 1.00kV				
<b>Continuity Testing</b>		yes	yes		no
<b>Measurement Current</b>		1mA	200mA		
<b>Open-circuit Voltage</b>		4 DCV	5 DCV		
<b>Leakage Current Testing</b>	yes				
<b>Sampling rate</b>	1 time/sec	2 times/sec	2 times/sec		
<b>Data Storage</b>	100 sets	20 sets			
<b>Display</b>	999	4000	4000		
<b>Bar Graph</b>	yes	yes			Taut band movement
<b>Safety</b>	CATIV 600V	CATIII 600V	CATIII 600V		CATIII