KEW MULTI FUNCTION TESTERS

MODEL

6020/6030



Model 6020 and 6030 are a heavy duty multifunction tester primarily developed to meet the demand from the power companies and safety control and maintenance industry. These instruments are fully water proof to IP57 rating with best consideration given to the possible use at restoration work in the rain following disaster caused by a typhoon. They are designed to withstand use under the most rigorous environmental conditions. Model 6020 and 6030 perform four test functions - insulation resistance (3 test voltages), earth resistance, voltage testing and phase check.

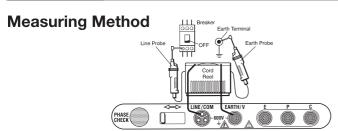
Features

- Water resistant (IEC60529 IP57)
- Test leads are stored in a cord reel module
- Easy-to-read large digital display
- The instrument automatically turns itself off in about 30 minutes to conserve battery life, if no push buttons are pressed.
- Illumination on test probes for work at night or in dimly lit locations
- Display back-light to improve legibility in poor lighting conditions
- Autoranging; three ranges for insulation resistance, two ranges for earth resistance and two AC voltage ranges
- The instrument and all accessories in one carrying case
- AC voltage range;
 - True RMS sensing permits accurate measurement of voltage with distortion and harmonics generated by equipment using SCRs or TRIACs.
- Insulation resistance range;
 - Three test voltages; Model 6020 (125V, 250V, 1000V)
 - Three test voltages; Model 6030 (250V, 500V, 1000V)
 - 1mA test current at the minimum load.
 - Automatically releases electric charges stored in the circuit under test.
 - Remaining charges can be observed on AC voltage range
 - Remote control switch on a test probe
- Earth resistance range;
 - Checks resistance of auxiliary earth bars
 - Can make both simplified and normal measurement
- Phase test;
 - LEDs indicate whether phase sequence is correct or reversed as well as open phase, if any.
 - Rated voltage from 100V to 600V AC

Specifications

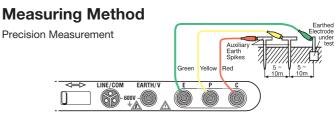
INSULATION TEST SPECIFICATIONS

MODEL	Model 6020	Model 6030	Model 6020/6030
Test Voltage	125V/250V	250V/500V	1000V
Measuring Ranges (MΩ)	0~1.999MΩ 1.00~19.99MΩ 10.0~199.9MΩ		0~19.99MΩ 10.0~199.9MΩ 100~1999MΩ
	(3 auto ranges)		
Accuracy	$\pm 2\% \text{rdg} \ \pm 3 \text{dgt} \ \pm 10\% \text{rdg}$ (on 1000-2000M Ω)		
Open Circuit Voltage	+20% -0% of Rated Test Voltage		
Rated Test current	1mA DC +20%-0%		
Short Circuit current	1.3mA DC approx.		
Effect of AC Component of Terminal Voltage	Within ±10% of reading when 5uF capacitor is connected in parallel on insulation test		
Overload Protection	1200V (DC + ACp-p) for 10 seconds		

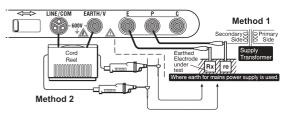


EARTH RESISTANCE TEST SPECIFICATIONS

Measuring Ranges (Ω)	$0\sim199.9\Omega$ 100 $\sim1999\Omega$ (2 auto ranges)
Accuracy	$\pm 2\%$ rdg ± 3 dgt (at 500 Ω auxiliary earth resistance)
Measuring Method	By constant current inverter 820Hz approx. 2mA approx.
Overload Protection	200V AC for 10 seconds between measuring terminals



Simplified Measurement

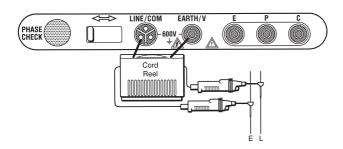


KEW MULTI FUNCTION TESTERS

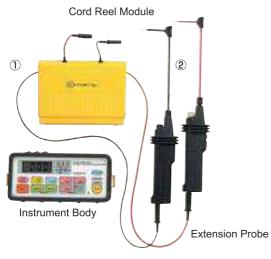
VOLTAGE TEST SPECIFICATIONS

Measuring Ranges (V)	0~199.9/100~600V (2 auto ranges)	
Accuracy	±1%rdg ±4dgt	
Sensing	True RMS	
Input Impedance	2ΜΩ	
Overload Protection	900V AC for 1 minute	

Measuring Method



Accessories





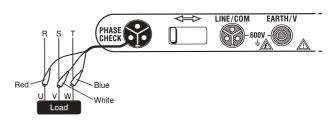
Description		Model No.	Quantity
1	Cord Reel Module	7092	1pce
2	Extension Probe	8082	1set
3	Test Leads (large)	7089	1set
4	Test Leads (small)	7090	1set
(5)	Test Leads for Earth Test (red-20m, yellow-10m, green-5m)	7091	1set
6	Test Leads for Phase Check	7088	1set
7	Auxiliary Earth Spikes	8083	2pcs
	Carrying Case	9081	1pce
	Belt for Carrying Case		2pcs
	Instruction Manual		1copy
	LR6 1.5V Alkaline Battery or equivalent		9pcs
	0 Ring Set		1set

(Model 6020 and 6030 include all of the above accessories)

PHASE CHECK SPECIFICATIONS

Measuring Range 10~600V (50Hz/60Hz) (for checking correct or reverse phase and open phase)

Measuring Method



General Specifications for Model 6020,6030

• Display 3 1/2(1999)digit large LCD

• Response Time Approx. 4 seconds for AC voltage and

earth resistance tests Approx. 5 seconds

for insulation resistance tests. 5550V AC for one minute

Withstand Voltage
 Effect of Drop
 S550V AC for one minute
 No electrical and mechanical damage

shall occur when the unit is dropped from a height of 1 m onto the concrete

floor.

• Effect of Temperature Readings shall not differ greater than

specified below when taken at a reference temperature of 23°C and varied temper-

ature of 0°C and 40°C.

AC Voltage 3% ±2 dgt insulation resistance and earth resistance 5% ±2 dgt

• Operating Temperature Range 0-40°C

• Dimensions 130×238×207mm

(main body plus cord reel module) 105×238×207mm (main body only) Approx. 1.6kg (main body only)

Weight Approx. 1.6kg (main body only)
 Approx. 750g (cord reel module only)

Power Supply
 1.5V LR6 alkaline battery or equivalent×8

(for main body only)

1.5V LR6 alkaline battery or equivalent×1

(probe only)

Safety Standard IEC 61010-1 CAT. Ⅲ 600V Pollution

Degree 2

A full set (deluxe version complete with aluminum carrying case and leakage clamp meter) is available as Model 6020T or 6030T.

Optional Accessories

- Model 2417 Water Proof Leakage Clamp Meter(→ page 10)
 40 mm jaw diameter True RMS 200mA/ 2000mA/ 20A/ 200A/ 500A
- Model 7093 Cord for Extension Probe

This is used to connect the extension probe directly to the instrument.

You can then use the instrument without the cord reel module.

Model 9080 Aluminum Carrying Case

This is a hard case of rugged construction. Mainly available with the top grade version of the multifunction tester that comes with the leakage clamp meter Model 2417.

Description	Model No.
Water Proof Leakage Clamp Meter	2417
Aluminum Carrying Case	9080
Cord for Extension Probe	7093