

6015



IEC 61010-1 CAT.III 300V

#### Accessories



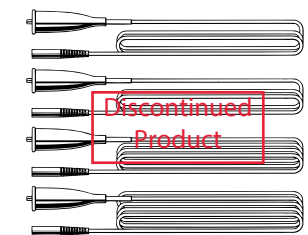
Model 7098



Model 7099



Model 7025



Model 7109



Model KSLP5  
(Model 7132)

| Accessories                                                                |
|----------------------------------------------------------------------------|
| 7098 Distribution board test leads(1 set)<br>for Loop/PSC/RCD testing      |
| 7099 Moulded plug test leads(1 set)<br>for Loop and RCD testing at sockets |
| 7025 Lead for insulation and continuity testing                            |
| 7109 Earth resistance test leads(1 set)                                    |
| KSLP5 external earth probe                                                 |
| 8032 auxiliary earth spikes                                                |
| 8210 IrDA Adaptor                                                          |
| Durable Holdall                                                            |
| Accessory pouch                                                            |
| Battery 8×1.5V R6 or LR6                                                   |
| Instruction Manual                                                         |

The top of the range KEW6015 can perform TEN separate test functions and provides all the test functions generally required to verify the safety of electrical installations in full compliance with IEC61557. The KEW6015 can store test results in its on-board memory for later downloading to a computer or printer. Data can be downloaded via the Infra Red Communication Port(IRDA Port). The KEW6015 is software driven and guides the user through the test functions required making the instrument very easy to use. It's numerous features include the ability to conduct 3 or 4 wire earth resistance tests, D-Lok technology to prevent tripping of most passive type RCD's when loop testing and mains voltage and frequency measurement.

#### Features

- Live circuit and wiring connection check LED's
- D-Lok technology on loop test range
- On-board memory to store test results
- Downloading of data via IRDA port
- Auto power off
- Back lit display
- Polarity switch
- Continuity Auto-null
- Auto ramp and auto test on RCD ranges
- Designed to IP54 Rating
- Complies with IEC61557

10in1

|                             |
|-----------------------------|
| Continuity Tester           |
| Insulation Tester           |
| Loop Impedance Tester       |
| RCD Tester                  |
| PSC Tester                  |
| Fault Current Tester        |
| Earth Resistance Tester     |
| Phase Rotation Tester       |
| Mains Frequency Measurement |
| Mains Voltage Measurement   |

6050

| Loop Impedance Testing                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage 230V + 10% - 15% (20/200/2000 Ω)<br>400V + 10% - 15% (200/2000 Ω)<br>Voltage Measuring Range 100-260V<br>100-440V (200/2000 Ω , 200A)<br>Impedance Range 20/200/2000 Ω<br>Nominal Test Current<br>15mA (200/2000 Ω ) 3A (20 Ω)<br>Base Accuracy<br>20Ωrange±(3%rdg+8dgt)200Ωrange±(3%rdg+8dgt)<br>2000Ωrange±(3%rdg+8dgt) |
| PSC Testing                                                                                                                                                                                                                                                                                                                             |
| Rated Voltage 230V + 10% - 15% (20/200/2000 A)<br>400V + 10% - 15% (200 A)<br>PSC Ranges 200/2000A/20kA<br>Accuracy<br>PSC accuracy derived from measured loop impedance specification and measured voltage specification                                                                                                               |
| RCD Testing                                                                                                                                                                                                                                                                                                                             |
| Rated Voltage 230V + 10% - 15%<br>Trip Current Settings<br>RCD X 1/2 : 10,30,100,300,500,1000mA<br>RCD X 1 : 10,30,100,300,500,1000mA<br>RCD X 5 : 10,30,100mA<br>RCD XDC : 10,30,100,300,500mA<br>RCD X Ramp : 10,30,100,300,500mA<br>Trip Current Duration<br>RCD X 1/2, X 1, XDC: 1000ms<br>RCD X 5,DC (500 and X 1 1000mA):200ms    |
| Contact Voltage Reading                                                                                                                                                                                                                                                                                                                 |
| 1.0-100.0V                                                                                                                                                                                                                                                                                                                              |
| General Specifications                                                                                                                                                                                                                                                                                                                  |
| Safety Standard IEC 61010-1 CAT.III 300V<br>Pollution degree 2<br>Withstand Voltage 3700V AC for one minute<br>Power Source 8×1.5V R6P<br>Dimensions 186(L)×167(W)×89(D)mm<br>Weight 980g approx including batteries                                                                                                                    |

| RCD Testing                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Voltage 230V AC ± 10%@ 50Hz<br>Trip Current Settings<br>RCD X 1/2 : 5,15,50,150,250mA<br>RCD X 1 : 10,30,100,300,500mA<br>RCD fast : 150mA<br>Trip Current Duration RCD X 1/2 X 1 : 2000ms<br>RCD fast :40ms<br>Accuracy<br>Trip Current ± 3% of test current at 230V<br>Trip time ± (3%rdg+3dgt) |
| General Specifications                                                                                                                                                                                                                                                                                  |
| Safety Standard IEC 61010-1 CAT.III 300V<br>Pollution degree 2<br>Withstand Voltage 3700V AC for one minute<br>Power Source 8×1.5V R6P<br>Dimensions 175(L)×115(W)×86(D)mm<br>Weight 780g approx including batteries                                                                                    |

|                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|
| CE Marking:signifies conformance to EMC directive (89/336/EEC, 92/31/EEC, 93/68/EEC) and Low Voltage directive (73/23/EEC, 93/68/EEC) |
|---------------------------------------------------------------------------------------------------------------------------------------|

#### 8205 KEW Demonstration Kit



KEW Demonstration Kit is also available from Kyoritsu to help customers with sales promotion and user training. This single unit can be used to give a demonstration of how to use the Insulation/Continuity, Loop and RCD(ELCB) testers. For more details contact the overseas sales department of KYORITSU.



#### Safety Warnings

Please read the“ Safety Warnings ”in the instruction manual supplied with the instrument thoroughly and completely for correct use. Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore,make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.

#### DISTRIBUTOR



KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.  
No.5-20 Nakane 2-chome, Meguro-ku, Tokyo,152-0031 Japan  
Phone : 81-3-3723-0131 Fax:81-3-3723-0152  
URL : http://www.kew-ltd.co.jp  
E-Mail : info@kew-ltd.co.jp  
Factories: Uwajima & Ehime

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6010A

| Continuity Testing                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring Ranges<br>20/200 Ω Autoranging<br>Open Circuit Voltage > 4V<br>Short Circuit Current > 200mA DC<br>Accracy ± (3%rdg+3dgt)                                                                                                                                                                     |
| Insulation Testing                                                                                                                                                                                                                                                                                      |
| Measuring Ranges<br>20/200M Ω Autoranging<br>Test Voltage 500V DC<br>Output Voltage on Open Circuit 570V DC ± 6%<br>Rated Current > 1mA<br>Accuracy ± (3%rdg+3dgt)                                                                                                                                      |
| Loop Impedance Testing                                                                                                                                                                                                                                                                                  |
| Rated Voltage 230V AC ± 10%@ 50Hz<br>Voltage Measuring Range 100-250V @ 50Hz<br>Impedance Ranges 20/2000 Ω<br>Nominal Test Current<br>24A (20 Ω range) 15mA (2000 Ω range)<br>Accuracy<br>20Ωrange±(3%rdg+8dgt)200Ωrange±(3%rdg+8dgt)                                                                   |
| RCD Testing                                                                                                                                                                                                                                                                                             |
| Rated Voltage 230V AC ± 10%@ 50Hz<br>Trip Current Settings<br>RCD X 1/2 : 5,15,50,150,250mA<br>RCD X 1 : 10,30,100,300,500mA<br>RCD fast : 150mA<br>Trip Current Duration RCD X 1/2 X 1 : 2000ms<br>RCD fast :40ms<br>Accuracy<br>Trip Current ± 3% of test current at 230V<br>Trip time ± (3%rdg+3dgt) |
| General Specifications                                                                                                                                                                                                                                                                                  |
| Safety Standard IEC 61010-1 CAT.III 300V<br>Pollution degree 2<br>Withstand Voltage 3700V AC for one minute<br>Power Source 8×1.5V R6P<br>Dimensions 175(L)×115(W)×86(D)mm<br>Weight 780g approx including batteries                                                                                    |

6011A

| Continuity Testing                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring Ranges<br>20/200/2000 Ω Autoranging<br>Open Circuit Voltage > 6V<br>Short Circuit Current > 200mA DC<br>Accuracy ± (1.5%rdg+3dgt)                                                                                                                                                                                                                           |
| Insulation Testing                                                                                                                                                                                                                                                                                                                                                    |
| Measuring Ranges<br>20/200M Ω Autoranging<br>Test Voltages 250V,500V and 1000V DC<br>Output Voltage on Open Circuit 250V+40%-0% 500V+30%-0% 1000V+20%-0%<br>Rated Current > 1mA<br>Accuracy ± (1.5%rdg+3dgt)                                                                                                                                                          |
| Loop Impedance Testing                                                                                                                                                                                                                                                                                                                                                |
| Rated Voltage 230V AC + 10% - 15%@ 50Hz<br>Voltage Measuring Range 100-250V AC @ 50Hz<br>Impedance Ranges 20/200/2000 Ω<br>Nominal Test Current<br>3A(20Ωrange),15mA(200Ωrange),15mA(2000Ωrange)<br>Accuracy<br>20 Ω range ±(3%rdg+4dgt) 200 Ω range ±(3%rdg+8dgt)<br>2000 Ω range ±(3%rdg+4dgt)                                                                      |
| PSC Testing                                                                                                                                                                                                                                                                                                                                                           |
| Rated Voltage 230V AC + 10% - 15%@50Hz<br>PSC Ranges 200A,2000A and 20kA<br>Accuracy<br>PSC accuracy derived from measured loop impedance specification and measured voltage specification                                                                                                                                                                            |
| RCD Testing                                                                                                                                                                                                                                                                                                                                                           |
| Rated Voltage 230V AC + 10% - 15%@ 50Hz<br>Trip Current Settings<br>RCD X 1/2 : 10,30,100,300,500,1000mA<br>RCD X 1 : 10,30,100,300,500,1000mA<br>RCD X 5 : 10,30,100,300mA<br>(on X 5 range max current 1A)<br>Trip Current Duration RCDX1/2X1 : 2000ms,<br>RCD fast : 50ms<br>Accuracy<br>Trip current + 10%-0% of test current at 230V<br>Trip time ± (1%rdg+3dgt) |
| General Specifications                                                                                                                                                                                                                                                                                                                                                |
| Safety Standard IEC 61010-1 CAT.III 300V<br>Pollution degree 2<br>Withstand Voltage 3700V AC for one minute<br>Power Source 8×1.5V R6P<br>Dimensions 130(L)×183(W)×100(D)mm<br>Weight 1000g approx including batteries                                                                                                                                                |

6015

| Continuity Testing                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring Ranges<br>20/200/2000 Ω Autoranging<br>Open Circuit Voltage > 6V<br>Short Circuit Current > 200mA DC<br>Accuracy ± (1.5%rdg+3dgt)                                                                                                                                                                                               |
| Insulation Testing                                                                                                                                                                                                                                                                                                                        |
| Measuring Ranges<br>20/200/2000M Ω Autoranging<br>Test Voltages 250V,500Vand 1000V DC<br>Output Voltage on Open Circuit 250V+20%-0% 500V+20%-0% 1000V+20%-0%<br>Rated Current > 1mA<br>Accuracy 0-100M Ω ±(2%rdg + 3dgt)<br>100M Ω ~ 2000M Ω ±(2%rdg + 4dgt)                                                                              |
| Loop Impedance Testing                                                                                                                                                                                                                                                                                                                    |
| Rated Voltage:230VAC ± 10%@ 50Hz<br>Voltage Measuring Range 100-250V AC @ 50Hz<br>Impedance Range 20/200/2000 Ω<br>Nominal Test Current<br>25A(20 Ω range) 1.2A(200 Ω range) 1.2A(2000 Ω range)<br>Test Period 1/2 cycle(10ms)<br>Base Accuracy<br>20 Ω range ±(3%rdg+5dgt)                                                               |
| PSC Testing                                                                                                                                                                                                                                                                                                                               |
| Rated Voltage 230VAC ± 10%@ 50Hz<br>PSC Range 2000A and 20kA<br>Accuracy<br>PSC accuracy derived from measured loop impedance specification and measured voltage specification                                                                                                                                                            |
| RCD Testing                                                                                                                                                                                                                                                                                                                               |
| Rated Voltage 230VAC ± 10%@ 50Hz<br>Trip Current Settings<br>RCD X 1/2 : 10,30,100,300,500mA<br>RCD X 1 : 10,30,100,300,500mA<br>RCD X 5 : 10,30,100,300,500mA<br>Trip Current Duration RCD X 1/2 X 1 : 2000ms<br>RCD X 5 : 200ms fast trip 50ms<br>Accuracy<br>Trip current + 10%-0% of test current at 230V<br>Trip time ± (2%rdg+3dgt) |
| Fault Current                                                                                                                                                                                                                                                                                                                             |
| Rated Voltage 230V AC ± 10% @ 50Hz<br>Fault Current Ranges 2000A and 20kA<br>Nominal Test Current 1.2A (2000A) 25A (20kA)<br>Fault Current Accuracy<br>Fault Current accuracy derived from measured loop impedance specification and measured voltage specification                                                                       |
| Earth Resistance                                                                                                                                                                                                                                                                                                                          |
| Ranges 20 Ω 200 Ω 2000 Ω<br>Output Voltage 70V peak to peak square wave<br>Frequency 720Hz ± 5%<br>Accuracy<br>20 Ω (±2%rdg + 5dgt) 200/2000 Ω (± 2%rdg + 3dgt)                                                                                                                                                                           |
| General Specifications                                                                                                                                                                                                                                                                                                                    |
| Safety Standard IEC 61010-1 CAT.III 300V<br>Pollution degree 2<br>Withstand Voltage 3700V AC for one minute<br>Power Source 8×1.5V R6 or LR6<br>Dimensions 105(L)×210(W)×240(D)mm<br>Weight 1924g approx including batteries                                                                                                              |

Quality and reliability is our tradition.



KYORITSU

## KEW Multifunction Tester



- ★Provide Basic, Medium & Sophisticated MFT series.
- ★Fully meet with the needs of convenient and fast installation works.
- ★World top-ranking MFT's with the latest standards and regulations.

KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

#### Digital Multifunction Tester



6050

3in1



6010A

4in1



6011A

5in1



6015

10in1



# 6050



IEC 61010-1 CAT.III 300V

## Accessories

Moulded plug test leads



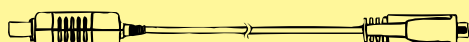
Model 7123(AU)Australian plug  
Model 7124(UK)British plug(13A)  
Model 7125(EU)European SHUKO plug  
Model 7126(SA)South African plug

## Optional Accessory

Model 7121(Distribution board test leads)



Model 8212 Data Communication Adapter



"KEW Report" Software for report  
"KEW Report" transfer measurement data from the COMBITESTER to a PC. Print or import the data into your report. COMBITESTER are connected to a PC via an optically-isolated RS232C interface cable (Model 8212 Data Communication Adapter)

KEW COMBITESTER MODEL 6050 is New Low Cost 3 in 1 MFT with Memory and Download Results to PC!

## Features

- Kew CombiTester provides the ultimate in Microprocessor technology offering Loop and RCD tests with a comprehensive memory and downloading test results.
- LOOP Impedance 200/2000 Ohm range measurement is carried out using a test current of 15mA. This current will not trip RCD's rated at 30mA or greater.
- High resolution for low Loop Impedance (resolution of 0.01 Ohm) on 20 ohm range.
- Direct reading of Prospective Short Circuit Current (PSC) and earth fault current.
- RCD tests at 0 and 180 degree phase angle switch permits quick tests and consistent readings.
- Test of a large kind of RCD's. Standard, Selective, AC and A (DC sensitive breakers).
- Constant current source circuitry ensures that a fluctuating mains voltage does not affect the accuracy of readings.
- RCD Ramp test in order to indicate the actual tripping current of RCD.
- Contact Voltage Reading (UC). with two selectable contact voltage limits (50 and 25v).
- Visual indication of correct wiring status and automatic lock-out if test resistors overheats.
- Designed to IEC 61010-1, IEC61557 and high protection degree IP54.

## Accessories

Moulded plug test leads(1 set)  
for Loop and RCD testing at socket

Pouch for Test Leads  
Shoulder Strap  
Battery 8X1.5V R6P  
Instruction Manual

## Optional Accessories

7121 Distribution board test leads(1 set)  
8212 Data Communication Adapter  
( including Software " Kew Report " )

# 3 IN 1

Loop Impedance Tester

RCD Tester

PSC Tester

# 6010A



IEC 61010-1 CAT.III 300V

## Accessories

KAMP10 Moulded plug test leads(1 set)  
for Loop and RCD testing at sockets

7025 Lead for insulation and continuity testing  
Pouch for Test Leads  
Shoulder Strap, Shoulder Pad  
Battery 8X1.5V R6P  
Instruction Manual

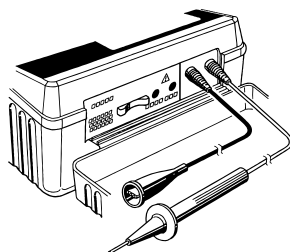
## Optional Accessories

OMA DIEC Distribution board or lighting circuit test leads(1 set) for LOOP and RCD testing

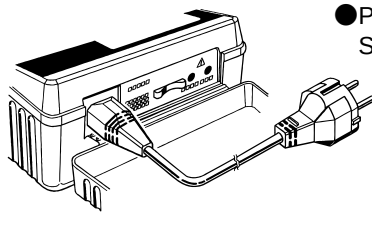
## Accessories

Continuity and Insulation Testing

LOOP and RCD Testing

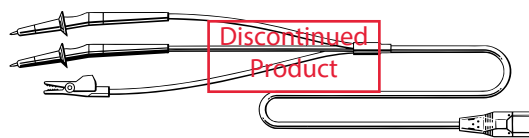


Model 7025  
(Test Leads)



KAMP10  
(Test Leads with IEC Connector)

## Optional Accessory



OMA DIEC (Model 7133)

The Model 6010A is an advanced multifunction tester that can perform all the testing required by IEC 364-6-61 with a single instrument. It can be used to test insulation resistance, continuity, loop impedance and RCDs(ELCBs), four major test requirement in the electrical testing industry. This four-in-one instrument eliminates the need to carry individual single function testers. Model 6010A is designed to IEC61010-1 and available with CE marking for EMC compliance.

## Features

### Continuity and Insulation Testing

- Live circuit warning LED: Immediate illumination of a warning lamp if the circuit under test is live
- Auto Discharge: Allows fast and safe discharge of electrical energy stored in capacitive circuits following testing
- Integral overload protection on internal continuity and insulation test circuitry
- Autoranging
- 500V DC test voltage for insulation tests
- 200 mA short circuit current on continuity ranges

### Loop and RCD Testing

- Wiring connection check LED's: Immediate indication if wiring of circuit under test is correct
- Overheat Protection: Rapid detection of overheating of internal circuitry, display of warning signal to user and automatic halting of measurement
- Supply Voltage Indication: Can display supply voltage value in loop impedance mode
- Low Current Loop Impedance Test: Short duration low test current will prevent tripping of many passive RCDs
- Auto Data Hold: Retains displayed reading for set period following test
- Phase Angle Selection: Selection of test current from +ve or -ve half cycle of waveform can prevent tripping of polarised type RCDs

# 4 IN 1

Continuity Tester

Insulation Tester

Loop Impedance Tester

RCD Tester

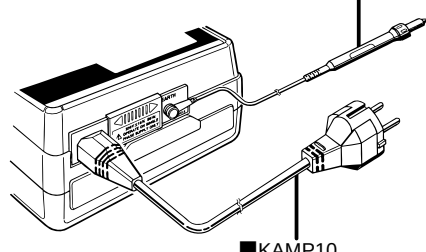
# 6011A



IEC 61010-1 CAT.III 300V

## Accessories

KSLP5 (Model 7132)



KAMP10

Model 7122 Test Leads



## Optional Accessory



OMA DIEC (Model 7133)

The Model 6011A can perform FIVE separate test functions; insulation, continuity, earth loop impedance, prospective short circuit current and RCD trip testing in full compliance with IEC61557.

It features a triple voltage insulation test at 250V, 500V and 1000V and can measure mains voltage when operating in the loop impedance and RCD testing functions. Additional features include a phase angle selector switch for RCD testing, a polarity switch for switching polarity during continuity and insulation tests and a continuity null to facilitate automatic subtraction of test lead resistance from continuity measurements.

## Features

- Live circuit and wiring connection check LED's
- Triple range insulation tests at 250, 500 and 1000V
- Triple range loop and PSC tests 15mA tests current at 200Ω/2000Ω range (No RCD Trip)
- Phase angle selection on RCD range
- Polarity switch for continuity tests
- Auto-null facility for continuity tests
- DC test for DC sensitive RCDs
- Earth probe for loop impedance testing on extraneous metalwork

## Accessories

KAMP10 Moulded plug test leads(1 set)  
for Loop and RCD testing at sockets

7122 Lead for insulation and continuity testing

KSLP5 external earth probe

Pouch for Test Leads

Shoulder Strap

Battery 8X1.5V LR6

Instruction Manual

## Optional Accessories

OMA DIEC Distribution board or lighting circuit test leads(1 set) for LOOP/PSC/RCD testing

# 5 IN 1

Continuity Tester

Insulation Tester

Loop Impedance Tester

RCD Tester

PSC Tester