

NEW

- Data logger & View function (up to 32000 readings)
- 100kHz bandwidth for voltage measurement
- VAC with 1M impedance
- Adjustable square wave output
- External power adapter for long hours of measurements
- Bluetooth Connectivity with Mobile & PC
- 1kHz Low Pass Filter mode
- 4-20mA/0-20mA scale type measurement
- Temperature measurement with J, K, Pt100 & Pt1000 sensors
- Conductance Measurement
- NO-GO function
- Single fuse for mA & A
- Selectable clamp ratio for current measurement
- Frequency / Time Period Measurement



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RISHABH INSTRUMENTS LTD. PVT.  
F-31, MIDC, Satpur, Nashik-422 007, India.  
Tel.: +91 253 2202160, 2202202 Fax : +91 253 2351064  
E-mail : India :- [marketing@rishabh.co.in](mailto:marketing@rishabh.co.in)  
International :- [exp.marketing@rishabh.co.in](mailto:exp.marketing@rishabh.co.in)  
[www.rishabh.co.in](http://www.rishabh.co.in)

The 6012-6016 series of new multimeters is made for professional use that offers safety, high resolution, large range count, reliability, ruggedness, a complete tool for test automation and is equipped with more than 30 different measuring functions.

### Application

#### Low input impedance ( $R_i = 1M\Omega$ )

Trouble shooting a branch circuit with dead or disconnected circuit is made easy with VAC $1M\Omega$ . Low impedance VAC $1M\Omega$  measurement helps eliminating error readings resulting from ghost voltages caused by long wires that share a common conduit.

#### Single fuse(16A)

Instrument contains a single fuse of 16A common for all the ranges of current from 600 $\mu$ A to 10A AC/DC as compared to the two fuses in traditional DMMs. This eliminates the accidental blowing of 1.6A fuse due to operator's error when higher current is applied in lower ranges.

#### Tool for automation, Bluetooth Interface

With ready to use communication protocol, one can easily automate his test system. The extensive data capturing and analysis is possible with RISHABH 601X Android Application.

Instead of cable, the higher communication distance can be achieved (10m). The Graphical and Tabular analysis is possible over android app.t



#### Square Wave Output

A square wave output can be generated from the DMM with the user selectable frequency and adjustable duty cycle. This can be used as baud rate generator, to check flow meters, to test frequency counters, accelerometer and frequency transmitter.

It can also be used as audio signal in audio signal testing.

#### Current measurement with clamp sensor

Measurement with various clamp sensors is possible, which helps in accurate measurement of current from 60mA to 6000A without interrupting the circuit. The measured current is automatically calculated from the selected clamp ratio.



#### Low pass filter(LPF) in VAC $10M\Omega$ & VAC $1M\Omega$

A selectable 1kHz low pass filter offers advanced variable frequency drive filtering to help you accurately analyze non-traditional sine waves and noisy signals. In LPF mode DMM rejects all high frequency noise making it suitable for making measurements on inverters and high frequency drives.



### True RMS measurement with high crest factors

Accurate true RMS measurement of distorted waveform with crest factor CF between 1 to 10.

### Data Logging

DMM 6015/6016 offers continuous data logging of up to 32000 readings with real time stamping. Log rate is adjustable from as low as 0.1 sec to as high as 1hr.



### Adjustable Beep Level

With Beep level setting, the limit for continuity can be adjusted from  $10\Omega$  to  $90\Omega$  depending upon application.

### Separate fuse compartment

Easier access to fuse when replacing the blown fuse.

### Auto Power OFF with adjustable timing

Flexibility to adjust "Auto off" period from 5 minutes to 60 minutes.

### 60mv & 600mV DC & ACDC

This helps in accurate measurement of low output voltages  $<600\text{mV}$  from sensors & transmitters. High frequency low voltage signal from RF transmitters can also be measured. Signal as low as  $0.001\text{mV}$  can be measured accurately.

### Min / Max / Avg measurement

Min/Max/Avg function records the minimum, maximum and average of all the readings applied since its activation.

With dual display it makes it even flexible for the user to keep the trace of the applied readings while viewing Min/Max/Avg readings. The average reading is useful for smoothing out unstable inputs, & verifying circuit performance.

### Dedicated keys for easy navigation

Dedicated navigation keys makes scrolling through menu and setting of parameters easy & comfortable.

### External Power Adapter (DC Jack)

The external power supply adapter helps in conserving battery while performing long hours of measurements. When DC jack is connected batteries inside DMM are electronically disconnected, and reconnected in absence of mains, hence there is no need of removing the battery when using the power adapter.

### 100kHz Bandwidth

Alternating voltages with frequencies up to 100kHz can be measured accurately. This is useful while analyzing high frequency analog signals.

### Self battery voltage measurement

Capable of measuring self battery voltage.

### Room temperature measurement

Room temperature can be sensed and measured without any external sensor. The same is used as internal reference temperature in thermocouple based temperature measurements

### Fully programmable GO NO-GO

The Go - NoGo function gives an indication through a buzzer for the applied input lying inside or outside the set band. The values for low limit, high limit and buzzer condition can be easily set through NoGo function in menu settings. Once the NoGo function is set, user can get busy doing other activities in the vicinity of the meter, whenever the condition is met it will be indicated by a buzzer. It eliminates the need of operator to continuously monitor the display.

### View Function

Data logged on meter can be viewed directly on the meter itself, hence the data analysis is also possible without a PC based software. However for graphical and large data analysis PC based software can be used.

### Dangerous Contact Voltage Indication

Presence of hazardous voltage ( $>35\text{Vrms}$  50/60Hz and  $50\text{Vdc}$ ) at the contact terminal are indicated on display. This is very useful while performing measurements in the circuit which takes longer time to discharge its capacitors, or where unexpected danger voltage are present.



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## Model Wise Functional Overview

Functions/Features	6012	6013	6015	6016
Voltage VDC ( $R_i > 9M\Omega$ )	•	•	•	•
Voltage VAC TRMS ( $R_i > 9M\Omega$ )	•	•	•	•
Voltage LoZ VAC TRMS ( $R_i = 1M\Omega$ )		•	•	•
Voltage VAC TRMS ( $R_i > 9M\Omega$ ) LPF 1kHz		•	•	•
Voltage LoZ VAC TRMS ( $R_i = 1M\Omega$ ) LPF 1kHz		•	•	•
Voltage VACDC ( $R_i > 9M\Omega$ )	•	•	•	•
High impedance, high bandwidth mV measurement	600mV	60mV/ 600mV	60mV/600mV	60mV/600mV
Bandwidth VAC & mV ACDC	10kHz	10kHz	10kHz	100 kHz
Frequency Measurement			•	•
Duty cycle %				
Voltage level measurement dB,dBu,dBm		•	•	•
Resistance	•	•	•	•
Conductance measurement	•	•	•	•
Continuity test ( $I_{const} = 1\text{ mA}$ )	•	•	•	•
Diode measurement ( $I_{const} = 1\text{ mA}$ )	•	•	•	•
Temperature measurement (TYP J,TYP K)		•	•	•
Temperature measurement (PT100,PT1000)	•		•	•
Capacitance measurement			•	•
Current ADC	600mA	6 A/16 A (20 A)	600 $\mu\text{A}/6\text{ mA}$ 60 mA/600 mA	600 $\mu\text{A}/6\text{ mA}$ 60 mA/600 mA
Current AAC+DC TRMS			6 A/10 A (16 A)	6 A/10 A (16 A)
Current AAC TRMS				
Bandwidth @ AAC+DC or AAC 10 kHz	•	•	•	•
Measurement with Clamp Sensor	•	•	•	•
Data Logging / Viewing Function			•	•
Protective rubber holster	•	•	•	•
Fuse 16A / 1000V	1.6A		•	•
0-20mA / 4-20mA percentage scale			•	•
Square wave Out			•	•
Self battery voltage measurement	•	•	•	•
MIN/MAX/AVG and Auto Hold functions	•	•	•	•
Dangerous contact voltage indication	•	•	•	•
REL/Zero function	•	•	•	•
Bluetooth Interface	•	•	•	•
External power supply adapter			Optional	
Measuring Category	1000 V CAT III 600 V CAT IV	1000 V CAT I 600V CAT II	1000 V CAT III 600 V CAT IV	1000 V CAT III 600 V CAT IV

## Environmental Condition

Operating temperature	-10 to +50°C
Storage temperature	-25 to +70°C
Relative humidity	<75% non condensing.
IP	IP 50 for Housing, IP20 for terminals.
Altitude	Up to 2000 m



## Technical Specification

## Voltage

Measurement Function	Measuring Range	Resolution	Input Impedance	Intrinsic Uncertainty under Reference Condition $\pm(\dots\%)$ of the rdg. +...Digits)			Overload Capacity <sup>2)</sup>						
				DC <sup>7)</sup>	AC <sup>1) 3)</sup>	ACDC <sup>1) 3)</sup>	Value	Time					
V	6V	100 $\mu$ V	>9M $\Omega$	0.05 + 5	0.5 + 9	1 + 30	1000 V DC/ AC RMS Sine	Continuous					
	60V	1mV		0.05 + 5									
	600V	10mV		0.05 + 9									
	1000V	100mV		0.09 + 10									
mV	60mV	1 $\mu$ V	>10M $\Omega$	0.09 + 15	-	1 + 30	Max 10 s						
	600mV	10 $\mu$ V		0.09 + 15									
Influence Quantity	Range of Influence			Range	Accuracy								
Frequency <sup>6)9)</sup>	>15 Hz...45 Hz			60 mV~ <sup>5)</sup> , 600 mV~	3+30								
	>65 Hz...100kHz												
	>15 Hz...45 Hz			6V, 60V, 600V~	2+9	3+9							
	>65Hz... 1kHz				1+9	3+9							
	>1kHz...20kHz				3+9	4+9 <sup>10)</sup>							
	>20kHz...100kHz <sup>8)</sup>				3.5+30								
	>15 Hz...45 Hz				2+9	3+9							
	>65Hz... 1kHz			1000V~	2+9	3+9							
	>1kHz....10kHz				3+30								

1) Specified Accuracy is valid as of 3% of the measuring range. With Short-circuited test probes: residual value of 1 to 30 d at zero point due to the TRMS converter.  
2) At 0°C to 40°C (Accuracy Range)  
3) In VAC measurement, Frequency will be shown above 10% of the present range, except for 1000V & 60mV range i.e. 25% & 50% respectively.  
4) Frequency Influence upto 10kHz  
5) Frequency response up to 50 kHz  
6) Frequency response is valid from 10% to 100% of range  
7) With Zero Balancing  
8) Frequency response up to 100 kHz, for greater than 50 kHz plus 2.5%  
9) Overload capacity of the voltage measurement input: power Limiting: Frequency x Voltage Max :  $6 \times 10^6 \text{ V} \times \text{Hz}$  for V>100V  
10) Frequency response greater than 2 kHzplus 2.5%

## Frequency, Duty Cycle

Measurement Function	Measuring Range	Frequency	Intrinsic Uncertainty	Overload Capacity <sup>1)</sup>			
				Value	Time		
Duty Cycle (%)	600Hz, 6kHz, 60kHz, 600kHz, 1MHz	fmin <sup>2)</sup> : 6Hz	0.05 + 5	1000 V DC/ AC RMS Sine	Max 10 s		
	10Hz....100kHz		0.1 + 5 <sup>4)</sup>				
	2.0...98%	15Hz .... 1kHz	0.1 R + 5 d				
	5.0...98%	.... 10kHz	0.2 R per kHz + 5d				
	10...90%	.... 50kHz	0.5 R per kHz + 5d				
1) At 0°C to 40°C (Accuracy Range)							
2) Lowest measurable frequency for square measuring signals symmetrical to the zero point ( $\pm 5\text{V}$ ).							
3) Overload capacity of the voltage measurement input : Power limiting: Frequency x voltage max : $6 \times 10^6 \text{ V} \times \text{Hz}$ for U>100V.							
4) Input sensitivity, sinusoidal signal , 10% to 100% of the measuring range							
5) At input $\pm 5\text{Vrms}$ ,Square wave, Bipolar inputs.							
R= Range d= digit							



# RISHABH 6012 / 6013 / 6015 / 6016 BLUETOOTH

True RMS Digital Multimeter

## Current

Measurement Function	Measuring Range	Resolution	Voltage Drop Approx.	Intrinsic Uncertainty under Reference Condition ±(...% of the rdg.+...Digits)			Overload Capacity <sup>2)</sup>			
				DC <sup>4)</sup>	AC <sup>1)</sup>	ACDC <sup>1)</sup>	Value	Time		
mA	600 µA	10 nA	60 mV	0.5 + 15	1 + 10	1.5 + 10	0.7A	Continuous		
	6 mA	100 nA	60 mV	0.5 + 5	1 + 10	1.5 + 10				
	60 mA	1 µA	60 mV	0.1 + 5	1 + 10	1.5 + 10				
	600 mA	10 µA	60 mV	0.2 + 5	1 + 10	1.5 + 10				
A	6 A	100 µA	60 mV	0.9 + 10	1 + 10	1.5 + 10	10 A: 5 min <sup>3)</sup>			
	10 A	1 mA	300 mV	0.9 + 10	1 + 10	1.5 + 10				
Influence Quantity	Range of Influence		Range	Accuracy						
				DMM 6016	Others					
Frequency <sup>5)</sup>	>15 Hz....45 Hz		600µA.....	3+10						
	>65Hz....10 kHz		10A							

1) Specified Accuracy is valid as of 3% of the measuring range. With Short- circuited test probes:  
residual value of 1 to 30 d at zero point due to the TRMS converter.

2) At 0°C to 40°C (Accuracy Range)

3) Off time 30 min and TA = 40°C

4) With Zero Balancing

5) Frequency response is valid from 10% to 100% of range

## Resistance, Diode, Continuity

Measurement Function	Measuring Range <sup>4)</sup>	Resolution	Open Ckt. Voltage	Meas. curr. @ range limit	Intrinsic Uncertainty	Overload Capacity			
						Value	Time		
$\Omega$ <sup>1)</sup>	600 Ω	10mΩ	<1.4V	Approx. 300 µA	0.1 + 10	1000 V DC/ AC RMS Sine	Max 10 s		
	6kΩ	100mΩ		Approx. 250 µA	0.1 + 10				
	60kΩ	1Ω		Approx. 100 µA	0.1 + 10				
	600kΩ	10Ω		Approx. 12 µA	0.5 + 10				
	6MΩ	100Ω		Approx. 1.2 µA	1 + 10				
	60MΩ	10kΩ		Approx. 125 nA	5 + 10				
	Continuity	600Ω	-	Appx. 8V	Approx. 1 mA				
	Diode <sup>1)</sup>	6.0V <sup>3)</sup>	-	Appx. 8V	Approx. 1 mA				
1) Measurement of Resistance, Diode will be more accurate after removal from device under test									
2) At 0°C to 40°C (Accuracy Range)									
3) Displays up to max 6.0 V, "OL" in excess of 6.0V.									
4) With Zero Balancing									

## Temperature

Measurement Function	Measuring Range		Intrinsic Uncertainty	Overload Capacity <sup>1)</sup>			
				Value	Time		
Temperature °C/F	Pt 100	-200 °C .. +850 °C	0.3 + 15 <sup>2)</sup>	1000 V DC/ AC RMS Sine	Max 10s		
	Pt 1000	-150 °C .. +850 °C	0.3 + 15 <sup>2)</sup>				
	TC K	-200 °C .. +1372 °C	1% +20 <sup>2)</sup>				
	TC J	-210 °C .. +1200 °C	1% +20 <sup>2)</sup>				
1) At 0°C to 40°C (Accuracy Range)							
2) Plus Sensor Deviation							



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### Capacitance

Measurement Function	Measuring Range	Resolution	V <sub>o</sub> MAX	Intrinsic Uncertainty	Overload Capacity <sup>2)</sup>	
					Value	Time
F <sup>3)4)</sup>	10 nF	10 pF	0.7 V	1 + 10 <sup>2)</sup>	1000V DC / AC RMS Sine	Max 10 s
	100 nF	100 pF		1 + 6 <sup>2)</sup>		
	1 µF	1 nF		1 + 6 <sup>2)</sup>		
	10 µF	10 nF		1 + 6 <sup>2)</sup>		
	100 µF	100 nF		5 + 6 <sup>2)</sup>		
	1000 µF	1 µF		5 + 6 <sup>2)</sup>		

1) At 0°C to 40°C (Accuracy Range)  
 2) Applies to measurements at film capacitors and battery operated.  
 3) Measurement of Capacitance will be more accurate after removal from device under test  
 4) With Zero Balancing

### Square Wave Out

Output	Range	Accuracy
Frequency	30Hz - 10kHz	0.1% x output frequency + 2 counts of DMM display
Duty Cycle	10% - 100% <sup>[2]</sup>	0.2% of Full scale <sup>[1]</sup>
Amplitude	Fixed -3.15 to 3.15V	±0.4V
1) For signal greater than 1kHz, add 0.2% per kHz to the accuracy		
2) In Multiple of 10		

### Influence Error

Influence Quantity	Range of Influence	Measured Quantity / Measuring Range <sup>1)</sup>	Variation ± (...% of rdg. + ... digits)/10k
Temperature	-10 °C to 21 °C & +25 °C to 50 °C	VDC	0.2 + 20
		V~, VACDC	0.4 + 10
		600Ω to 600 kΩ	0.5 + 10
		> 600 kΩ	1 + 10
		mA/ ADC	0.6 + 10
		mA/ AAC, ACDC	0.8 + 10
		10nF...10µF	1 + 5
		100µF...1000µF	1.5+10
		Hz, %	0.2 + 10
		°C/F pt100/pt1000	0.5 + 10
Relative humidity	75% 3 Days Meter off	°C/F thermocouple K/J	0.2 + 10
		V,A,Hz%,Diode,F,Ω	1 × intrinsic error
Battery voltage	1.8 to 3.6V	V,A,Hz%,Diode,F,Ω	1 × intrinsic error

1) With Zero Balancing

### Reference Condition for Accuracy

Reference Temperature	23°C ± 1K
Relative Humidity	45%...55% RH
Waveform of measured quantity	Sinusoidal
Input frequency	45...65 Hz
Battery Voltage	3 V ± 0.1 V



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## Influence Quantity

Influence Quantity	Range of Influence	Measuring Ranges	Attenuation
Common Mode interference voltage	Noise quantity max. 1000 V dc	V dc	> 120 dB
	Noise quantity max. 1000 V ~ 50-60 HZ sinusoidal	6.0 V~, 60 V~	>80 dB
		600 V~	> 70 dB
		1000 V~	> 60 dB
Normal Mode interference ratio	Noise quantity V ~ Value of the measuring range at a time Max. 1000V~, 50Hz, 60Hz Sinusoidal	V dc	> 50dB
	Noise quantity max. 1000 V dc	V~	>110dB

## Applicable Regulations & Standards

EMC Immunity	IEC 61326-1:2012, Table A.1
Immunity	IEC 61000-4-2 : 8 KV atmosphere discharge, 4 KV contact discharge IEC 61000-4-3 : 3 V/m
Safety	IEC 61010-1-2010
IP for water & dust	IEC 60529 : IP 50 For Instrument and IP20 for socket
Pollution degree:	2
Installation category:	1000 V CATIII / 600 V CATIV, 600V CATII for DMM 6013
High Voltage Test	7.4 kV (IEC 61010-1-2010), 3.5kV For DMM 6013
Test & Procedure	IS 13875

## Battery

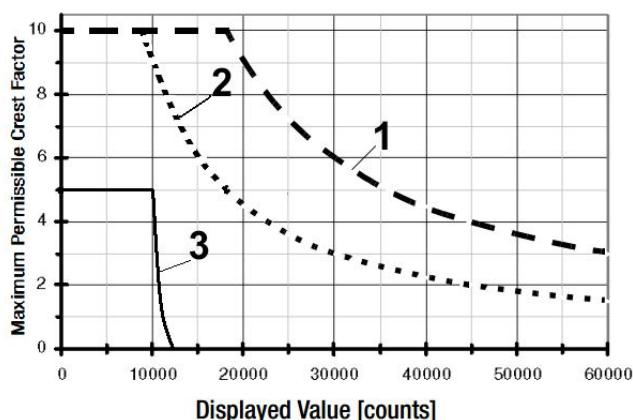
Battery Voltage	2 X 1.5 V Cells (LR6 Battery)
Battery type	Alkaline manganese cells.
Battery Life	Appx. 100 Hrs. (Backlight off / Bluetooth off)
	Appx. 48 Hrs. (Backlight off)
Battery test	Automatic display of  symbol when battery voltage drops below approx. 2.4V

## Mechanical Design

Housing	PC ABS
Dimension	200 x 91 x 54 mm
Weight	Approx. 0.5 kg with batteries



## Crest Factor



Additional error caused by signal's crest factor:  $1 < CF < 3$ : 1% R + 30D  
 $3 < CF < 10$ : 3% R

**Curve 1:** Range from 0.06V to 60V,  
 0.6mA to 60mA, 6A

**Curve 2:** Range 600V  
 600mA

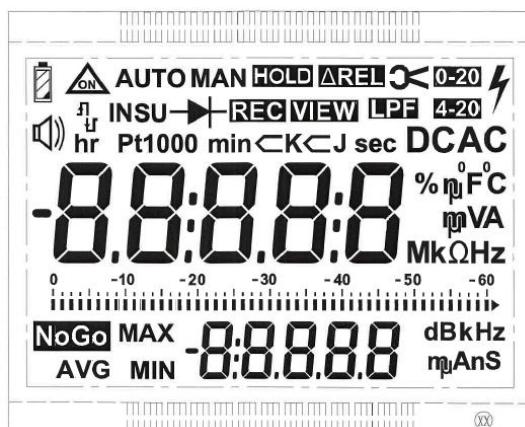
**Curve 3:** Range 1000V  
 10A

Note: With Unknown Waveform ( $CF > 2$ ), measurement should be made with manual range selection.  
 R = Reading  
 D = Digit

## Internal Clock

Time Format	dd.MM.yy hh.mm.ss
Resolution	1 s
Accuracy	$\pm 1$ min. per month
Temperature Influence	50 ppm/K

## Display



LCD display field 67 mm X 54 mm with digital display, analog scale and with display of measurement unit, and Various special functions.

### Analog

Display:

LCD scale with bar graph or pointer, depending on the selected parameter setting  
 2 bar/pointer corresponds to 2500 counts at the digital display

Scaling:

By triangle "►"  
 With automatic switching

Over range Display (Digital):  
 Polarity Display:  
 Sample rate (Digital):

10 measurements / sec and display refresh

### Digital

Display:

7-segment characters

Character Height:

Main Display - 12.88mm

Resolution:

Sub Display - 7.37mm

Overflow Display:

60,000 counts

Polarity Display:

"OL" is displayed

Measuring Rate:

"-" (minus) is displayed

if plus pole is connected to "±"

Refresh Rate:

10 measurement / sec with the Min-Max function except for the capacitance, frequency and duty cycle measuring Function

Number of Digits:  
 4 times/ sec

4

5



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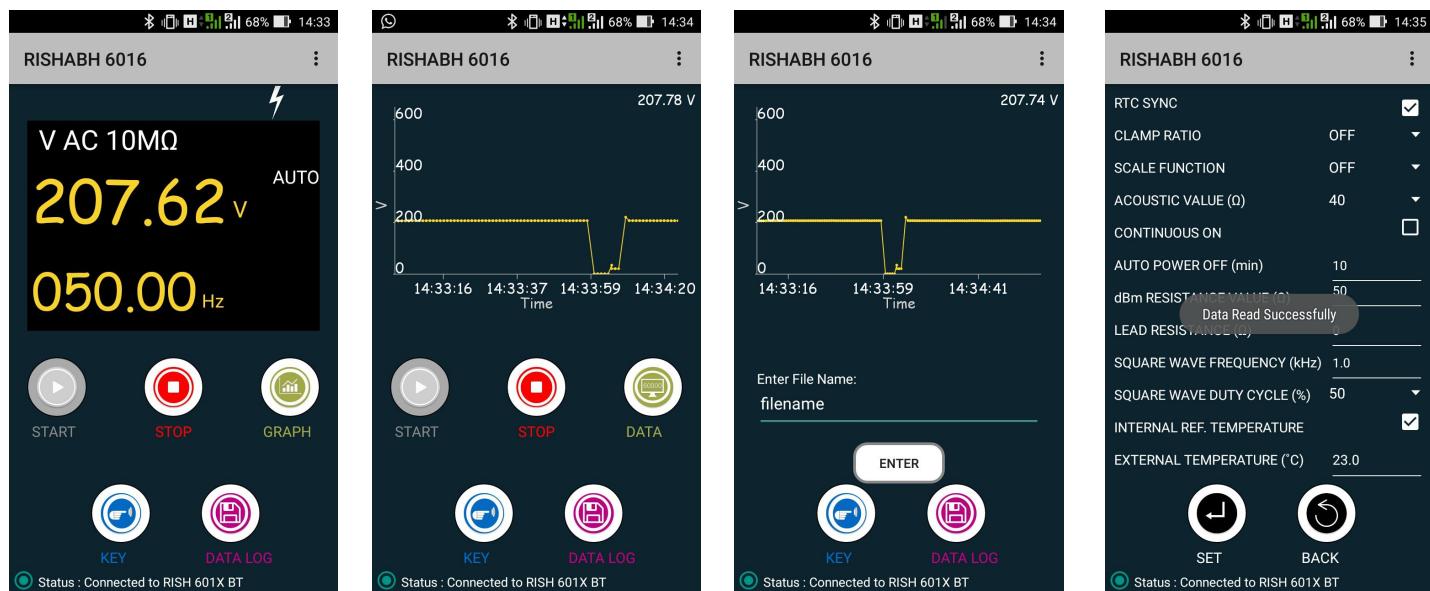
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### Fuse

Fuse	FF (UR) 16 A/ 1000 V AC/DC; 10 mm x 38 mm (DMM 6015 & DMM 6016)
	FF (UR) 1.6 A/ 1000 V AC/DC ; 6.3 mm x 32 mm (DMM 6012)
Switching Capacity	30 kA at 1000 V AC/DC (DMM 6015 & DMM 6016)
	10 kA at 1000 V AC/DC (DMM 6012)

### Android Application



- Class 2 Bluetooth which is integrated in the instrument achieves transmission ranges of up to 10m.
- Recommended Screen Size: 4.7" to 7" with resolution 1280 x 720p & above.
- Android Version: 4.0 & above.
- Meter Setup Parameter can be configured through application.
- Measured Parameter can be logged in Excel format on mobile's default memory.
- Function, Range and Relative key's operation is possible through application.
- Graphical Analysis of measured parameter is possible.
- Offline Data of meter can be retrieved on mobile through application.
- Virtual Display of meter can be observed on mobile application.

### Scope of Supply

Model Name	Scope of Supply
RISHABH 6012 BLUETOOTH	1. Digital Multi-Meter
RISHABH 6013 BLUETOOTH	2. Cable Set
RISHABH 6015 BLUETOOTH	3. Protective Case
RISHABH 6016 BLUETOOTH	4. Battery 5. Operating Manual 6. Test Certificate 7. Rishabh Datalogger Software
<b>OPTIONAL ACCESSORIES</b>	
1. External Power Supply Adapter	



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