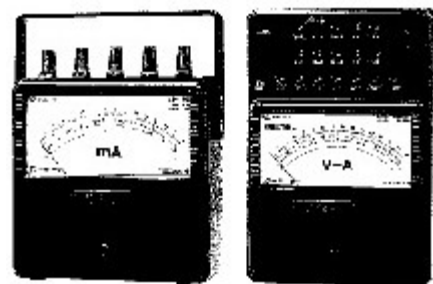


PORTABLE DC AMMETER & VOLTMETER 2011, 2012

Models 2011 and 2012 ammeters & voltmeters are moving coil type instruments using a taut-band suspension system. The suspension system provides excellent reproducibility without friction, and strong resistance to shock impact. These precision instruments combine a magnetic circuit (sandwich mechanism) that blocks the effects of external magnetic fields, and a superior temperature compensation circuit.



Details

Specifications - Model 2011 31

Max. Scale Value	3/10/30/100 μ A
Approximate Internal Resistance and Consumed Power	5.1/18.3/7.7/2.5 K Ω
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none">• 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.

- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 32

Max. Scale Value	10/30/100/300 μ A
Approximate Internal Resistance and Consumed Power	6.8/6.8/2.5/0.88 K Ω
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 33

Max. Scale Value	0.1/0.3/1/3 mA
Approximate Internal Resistance and Consumed Power	750/750/278/97.5 Ω
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C

Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 34

Max. Scale Value	1/3/10/30 mA
Approximate Internal Resistance and Consumed Power	23/14/4.7/1.6 Ω
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 35

Max. Scale Value	10/30/100/300 mA
Approximate Internal Resistance and Consumed Power	50 mV
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 36

Max. Scale Value	0.1/0.3/1/3 A
Approximate Internal Resistance and Consumed Power	50 mV
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg

Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 37

Max. Scale Value	1/3/10/30 A
Approximate Internal Resistance and Consumed Power	50 mV
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 38

Max. Scale Value	0.3/1/3/10 V
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Approximate Internal Resistance and Consumed Power	1mA (1000 D/V)
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 39

Max. Scale Value	3/10/30/100 V
Approximate Internal Resistance and Consumed Power	1mA (1000 D/V)
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012

Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.
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Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 40

Max. Scale Value	30/100/300/1000 V
Approximate Internal Resistance and Consumed Power	1mA (1000 D/V)
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 41

Max. Scale Value	(50mV)
Approximate Internal Resistance and Consumed Power	93 Ω
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)

Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2011 42

Max. Scale Value	(3V)
Approximate Internal Resistance and Consumed Power	1mA (1000 Ω/V)
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	195 x 170 x 87 mm
External Weight	1.7 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Features

- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.
- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Specifications - Model 2012 00

Max. Scale Value	3/10/30/100/300/1000V 1/3/10/30/100/300mA 1/3/10/30A/50mV
Operating Principle	Permanent moving coil
Class	JIS C 1102 : 1997 Class 0.5 (Equivalent to class 1.0)
Operating Position	Horizontal
Scale Length	Approximately 135 mm (Deflection Angle: 85°)
Scale Divisions	100/150
Linemax	250V (Ammeters only)
Operating Temperature Range	0 ~ 46 °C
Operating Humidity Range	30 ~ 75% RH
Storage Temperature Range	-10 ~ 50 °C
Storage Humidity Range	25 ~ 80% RH
External Dimension	260 x 180 x 115 mm
External Weight	2.8 kg
Standard Accessories	Instruction Manual (1) Shunt cable (2011 41, 2012 00 only)
Optional Accessories	2291 01 Carrying case for 2011 2292 01 Carrying case for 2012
Scale	<ul style="list-style-type: none"> • 2011 41 50 mV instrument and 2011 42 3 V instrument The scale for the 50mV instrument has 100 and 150 divisions. A 50 mV current transformer may be combined with any rated current instrument to read measurements through a simple conversion process. DC scales (single scale or dual scale) are also available by special order.

Approximate Internal Resistance and Consumed Power

Voltage measurement range Approximately			
1mA (100W/V)			
Current measurement range			
<Range>	<Voltage Drop>	<Range>	<Voltage Drop>
1 mA	24 mV	1 A	53 mV
3 mA	41 mV	3 A	56 mV
10 mA	47 mV	10 A	75 mV
30 mA	49 mV	30 A	100 mV
100 mA	50 mV	50 mV	59Ω
300 mA	51 mV		

Features



- Taut-band suspension system eliminates friction and provides strong resistance to shock impact.

- Stable performance ensures that changes over time are negligible.
- Quick response and easy-to-read scale
- Superior temperature compensation circuit reduces external temperature effects.
- Magnetic circuit (sandwich mechanism) reduces the effects of external magnetic fields.

Model Numbers

Model	Description
2011 38	0.3/1/3/10 V, 1mA (1000 D/V), 195 x 170 x 87 mm, 1.7 kg
2011 36	0.1/0.3/1/3 A, 50 mV, 195 x 170 x 87 mm, 1.7 kg
2011 33	0.1/0.3/1/3 mA, 750/750/278/97.5 Ω , 195 x 170 x 87 mm, 1.7 kg
2011 37	1/3/10/30 A, 50 mV, 195 x 170 x 87 mm, 1.7 kg
2011 40	30/100/300/1000 V, 1mA (1000 D/V), 195 x 170 x 87 mm, 1.7 kg
2011 39	3/10/30/100 V, 1mA (1000 D/V), 195 x 170 x 87 mm, 1.7 kg
2011 32	10/30/100/300 \square A, 6.8/6.8/2.5/0.88 K Ω , 195 x 170 x 87 mm, 1.7 kg
2011 31	3/10/30/100 \square A, 5.1/18.3/7.7/2.5 K Ω , 195 x 170 x 87 mm, 1.7 kg
2011 41	(50mV), 93 Ω , 195 x 170 x 87 mm, 1.7 kg
2012 00	3/10/30/100/300/1000V 1/3/10/30/100/300mA 1/3/10/30A/50mV, N/A, 260 x 180 x 115 mm, 2.8 kg
2011 42	(3V), 1mA (1000 Ω /V), 195 x 170 x 87 mm, 1.7 kg
2011 35	10/30/100/300 mA, 50 mV, 195 x 170 x 87 mm, 1.7 kg
2011 34	1/3/10/30 mA, 23/14/4.7/1.6 Ω , 195 x 170 x 87 mm, 1.7 kg

Specifications

Name	Description	File Type	
Selection Guide		 73 KB	Download
List of JIS Mark Indications		 54 KB	Download

Portable Instrument (Ammeter and Voltmeter) *Selection Guide*

Category	Class	Model	Measurement range (maximum scale value)									
DC ammeters and voltmeters	Class 0.5 Class 1.0 (2011 31) (2011 32)	2011 DC A	4 ranges	10μA	100μA	1mA	10mA	100mA	1A	10A	100A	
				2011 31	2011 32	2011 33	2011 34	2011 35	2011 36	2011 37		
		2012 DC AV	17 ranges	2011 41 ○(50mV)								
				2012 ○(50mV)				2012	2012 00			
AC ammeters and voltmeters	Class 0.5	2013 AC A	2 ranges		2013 01	2013 02	2013 03	2013 04	2013 05	2013 06	2013 07	2013 08
												2013 09
		2014 AC AV	4 ranges		2013 10	2013 11	2013 12	2013 13	2013 14	2013 15	2013 16	2013 17
												2013 18
High frequency ammeters and voltmeters, audible frequency voltmeters	Class 1.0 Class 0.5	2016 (thermocouple type)	13 ranges									
		2017 (rectifier type)	2 ranges									
DC ammeters and voltmeters	Class 1.0	2051 DC A	4 ranges									
		2051 DC V	4 ranges									
AC ammeters and voltmeters	Class 1.5	2052 AC A AC V (rectifier type)	4 ranges									
		2052 AC A AC V (rectifier type)	4 ranges									

2013 22
○(500)
Combined with
current transform

2016 01
2016 02
2016 03
2016 04
2017 30

2052 01
2052 02
2052 03
2052 04
2052 05
2052 06
2052 07

List of JIS Mark Indications

Product	Model	Specifications		JIS mark	Product	Model	Specifications		JIS mark			
DC ammeter (4 ranges)	2011	31	3/10/30/100 μ A	None	Needle-indicator frequency meter	2038	31	45~65Hz 120/240V	None			
		32	10/30/100/300 μ A				32	20~100Hz 120/240V				
		33	0.1/0.3/1/3 mA	$\text{\textcircled{G}}$			03	100~300Hz 120/240V	None			
		34	1/3/10/30 mA				04	300~500Hz 120/240V				
		35	10/30/100/300 mA				11	45~55Hz 120/240V				
		36	0.1/0.3/1/3 A				12	55~65Hz 120/240V				
		37	1/3/10/30 A									
DC voltmeter (4 ranges)	2011	38	0.3/1/3/10 V	$\text{\textcircled{G}}$	Power factor meter	2039	01	0.2/1A 120V	None			
		39	3/10/30/100 V				02	1/5A 120V				
		40	30/100/300/1000 V				03	5/25A 120V				
DC ammeter	2012	41	(50mV)	$\text{\textcircled{G}}$	Single-phase wattmeter	2041	01	0.2/1A 120/240V	$\text{\textcircled{G}}$			
DC voltmeter		42	(3 V)	$\text{\textcircled{G}}$			02	1/5A 120/240V				
DC ammeter and voltmeter	2012	00	17 ranges	$\text{\textcircled{G}}$			03	5/25A 120/240V				
AC ammeter (2 ranges)	2013	01	20/100 mA	$\text{\textcircled{G}}$	Single-phase low power factor wattmeter	2041	11	0.2/1A 120/240V Power factor: 0.2	None			
		02	50/250 mA				12	1/5A 120/240V Power factor: 0.2				
		03	100/500 mA				13	5/25A 120/240V Power factor: 0.2				
		04	0.2/1 A				21	0.2/1A 30/60V Power factor: 0.2				
		05	0.5/2.5 A				22	1/5A 30/60V Power factor: 0.2				
		06	1/5 A		Three-phase wattmeter	2042	01	0.2/1A 120/240V	$\text{\textcircled{G}}$			
		07	2/10 A				02	1/5A 120/240V				
		08	5/25 A				03	5/25A 120/240V				
		09	10/50 A									
AC ammeter (4 ranges)	2013	10	20/50/100/200 mA	$\text{\textcircled{G}}$	Miniature DC ammeter	2051	01	30/100/300/1000/3000 μ A	$\text{\textcircled{G}}$			
		11	0.1/0.2/0.5/1 A				02	0.3/1/3/10/30 mA				
		12	0.5/1/2/5 A				03	10/30/100/300/1000 mA				
		13	2/5/10/20 A				04	0.3/1/3/10/30 A				
AC voltmeter (2 ranges)	2013	14	10/20/50/100 A	$\text{\textcircled{G}}$					11	\pm 0.15/0.5/1.5/5/15 mA	$\text{\textcircled{G}}$	
		15	15/30 V				12	\pm 0.3/1/3/10/30 mA				
		16	30/75 V				13	\pm 5/15/50/150/500 mA				
		17	75/150 V				14	\pm 10/30/100/300/1000 mA				
		18	150/300 V				15	\pm 0.15/0.5/1.5/5/15 A				
AC ammeter	2013	19	300/750 V	$\text{\textcircled{G}}$					16	\pm 0.3/1/3/10/30 A	$\text{\textcircled{G}}$	
20		(5 A)	Miniature DC voltmeter		2051	05	0.3/1/3/10/30 V					
AC voltmeter		21				(150V)	06	3/10/30/100/300 V				
AC ammeter	22	500 (500AT) A		17		\pm 0.15/0.5/1.5/5/15 V						
AC voltmeter (4 ranges) (for 400 Hz)	2013	23		0.5/1/2/5 A		$\text{\textcircled{G}}$	18	\pm 0.3/1/3/10/30 V				
		24		2/5/10/20 A			19	\pm 1.5/5/15/50/150 V				
		25		10/20/50/100 A			20	\pm 3/10/30/100/300 V				
AC voltmeter (2 ranges) (for 400 Hz)	2013	26	75/150 V	$\text{\textcircled{G}}$	Miniature AC ammeter	2052	01	0.5/1/2.5 mA	$\text{\textcircled{G}}$			
27		150/300 V	02				2.5/5/10 mA					
AC ammeter and voltmeter	2014	00	13 ranges	$\text{\textcircled{G}}$						03	10/25/50 mA	
High-frequency AC ammeter	2016	01	5/10/20/50 mA	None			Miniature AC voltmeter	2053		04	50/100/250 mA	$\text{\textcircled{G}}$
		02	20/50/100/200 mA		05	3/7.5/15 V						
		03	100/200/500/1000 mA		06	15/30/75 V						
High-frequency AC voltmeter	2017	04	15/30/75/150 V	None	Miniature AC ammeter	2053	07	75/150/300 V	$\text{\textcircled{G}}$			
Audio-frequency voltmeter		30	30/75/150/300 V				01	0.25/0.5/1 A				
							02	1/2.5/5 A				
							03	5/10/25 A				