

Model
73201
73202
73203
73204

3.5 digits

4300 count



• Photo shows the 73203 with optional rubber case.



- Compact size, ideal for carrying
- Large display for easy viewing
- Safe design allows measurement in excess of 20 A (excluding 73204)
- Special model for voltage measurement (73204)
- Simple auto hold function
- Capacitors can be checked (73202/73203)

General Specifications		73201 / 02 / 03 / 04
Additional Functions	Display	Auto hold, overvoltage and current warning
Measuring Rate	Digital display	4300-count digital reading
Operating Temp. and Humidity	Digital display	Approx. 2 times/sec
Storage Temp. and Humidity	Temperature Coefficient	0 to 50°C; 80% RH or less at 0°C to 40°C, or 70% RH or less at 40°C to 50°C (no condensation)
Withstanding Voltage	Power Supply	-20°C to 60°C, 70 RH or less (no condensation)
Power Supply	Battery Life	Add accuracy x 0.1/°C to the basic accuracy at a temperature within 0°C to 18°C and 28°C to 50°C
Battery Life	Auto Power Off	3.7 kV AC for 1 minute (between input terminals and casing, for 73201, 73202, 73203)
Auto Power Off	Dimensions	5.55 kV AC for 1 minute (between input terminals and casing, for 73204)
Dimensions	Weight	Two AAA (LR03 or R03) dry cells
Weight	Compliance with Standards	Approx. 600 hours (for continuous DC voltage measurement with alkaline cells)
Compliance with Standards	Standard Accessories	The power is automatically turned off when no operation is made for approx. 20 minutes (can be disabled). N/A for 73204
Standard Accessories		74 (W) x 155 (H) x 31 (D) mm
		Approx. 240 g (including batteries)
		Safety EN61010-1 (1995) + Amend; EN61010-2-031 (1995) (600 V, CAT II; 300 V, CAT III; contamination level 2, indoor use: 73201, 73202, 73203)
		(600 V, CAT III; contamination level 2, indoor use: 73204)
		EMC EMI: EN55011 (1991) (Class B, Group 1)
		EMS: EN50082-1 (1997)
		Instruction manual: 1
		Test lead set (RD031): 1
		AAA (LR03/R03) dry cells (built in): 2
		Spare fuse F05 (500 mA/250 V, not included for 73204): 1
		Spare fuse F02 (15 A/250 V, not included for 73204): 1

Options		
Option Code	Specification	
732□□/R	With rubber case	

Optional Accessories		
Name	Model	Specification
Fuse	F05	500 mA/600 V
	F02	15 A/600 V
Test leads	RD031	Red / black (1 set)
Carrying case (hard)	B9646GB	Houses the DMM and test leads
Rubber case	93007	For DMM

Performance

Test conditions: Temperature and humidity = 23°C ± 5°C, 80% RH or less; Accuracy = ±(% of reading + digits).
 Note: Response time is the time required for achieving accuracy specified for the corresponding range.

• DC Voltage Measurement (V_{DC})

Range	Accuracy			Input Resistance	Maximum Input Voltage
	73201	73202/04	73203		
400.0 mV	0.5% + 1	0.5% + 1	0.3% + 1	>100 MΩ	600 V
4.000 V				11 MΩ	
40.00 V	0.75% + 1			10 MΩ	
400.0 V					
600 V					

Response time: 1.5 seconds or less for 400 mV range, 1 second or less for all other ranges

• AC Voltage Measurement (V_{AC})

Mean-value detection and RMS-value calibration

Range	Accuracy			Input Resistance	Maximum Input Voltage
	73201	73202	73203/04		
4.000 V	1% + 5		0.75% + 5	>11 MΩ, <50 pF	600 Vrms
40.00 V				>10 MΩ, <50 pF	
400.0 V					
600 V					

Response time: 2 seconds or less

• DC Current Measurement (A_{DC})

Not available with 73204

Range	Accuracy			Voltage Drop	Maximum Input Current		
	73201	73202	73203				
400.0 μA *1	1% + 2			<0.17 mV/μA	400 mA (500 mA/600 V fuse-protected)		
4000 μA				<3 mV/mA			
40.00 mA *1							
400.0 mA							
4.000 A	2% + 2			<0.04 V/A	10 A (15 A/600 V fuse-protected)		
10.00 A *2							

*1: Drift in the least significant digit may occur.
 *2: Measurement of 11 to 20 A can be performed within 30 seconds. A warning buzzer sounds when 30 seconds have passed.
 Response time: 1 second or less

• AC Current Measurement (A_{AC})

Not available with 73204

Mean-value detection and RMS-value calibration

Range	Accuracy (40 – 500 Hz)			Voltage Drop	Maximum Input Current		
	73201	73202	73203				
400.0 μA*1	2% + 20			<0.17 mV/μA	400 mA (500 mA/600 V fuse-protected)		
4000 μA				<3 mV/mA			
40.00 mA*1							
400.0 mA							
4.000 A	2.5% + 20			<0.04 V/A	10 A (15 A/600 V fuse-protected)		
10.00 A*2							

*1: Drift in the least significant digit may occur.
 *2: Measurement of 11 to 20 A can be performed within 30 seconds. A warning buzzer sounds when 30 seconds have passed.
 Response time: 2 second or less

• Resistance Measurement (Ω)

Range	Accuracy		Maximum Testing Current	Open-circuit Voltage	Input Protection Voltage
	73201 to 73204				
400.0 Ω	0.75% + 2		<1 mA	<3.4 V	600 V
4.000 kΩ			<0.5 mA	<1.0 V	
40.00 kΩ	0.75% + 1		<70 μA	<0.7 V	
400.0 kΩ			<7 μA		
4.000 MΩ	2% + 1		<0.7 μA		
40.00 MΩ			5% + 2	<70 μA	

Response time: 1 second or less for 400 kΩ range or less, 5 seconds or less for 4 MΩ range, 15 seconds or less for 40 MΩ range

• Continuity Check (⌚)

Range	Continuity Beeper		Open-circuit Voltage	Input Protection Voltage
	73201 to 73204			
400.0 Ω	Buzzer sounds at 50 ± 20 Ω or less		<3.4 V	600 V

Response time: 0.2 second or less (buzzer response)

• Diode Test (⌚)

Range	Accuracy		Open-circuit Voltage	Input Protection Voltage
	73201 to 73204			
2.00 V	1% + 1 (testing current 1 mA or less)		<3.4 V	600 V

Response time: 1 second or less

• Capacitor Check (⌚)

Range	Accuracy			Input Protection
	73201/04	73202	73203	
20.00 nF	Not available	2% + 5, typical (20 nF range: Accuracy after zero calibration)		500 mA/250 V fuse-protected
200.0 nF				
2.000 μF				
20.00 μF				
200.0 μF				

Response time: 1 second or less