



Suitable for a range of purposes from hobby use to maintenance of electric equipment

DMM732 SERIES

Digital Multimeters

Maximum DC voltage accuracy: 0.3% (73203)
Maximum AC voltage accuracy: 0.75% (73203)
Capacitor Test function (on both 73202 & 73203)



Large Clear LCD display (capable of displaying up to 4300 counts)

So compact it fits in the palm of your hand

Safe for currents as high as 20 A (except for 73204)

Multi-functional

- AUTO HOLD function
- Auto power off function

Basic model for voltage measurement only



01 02 04
DMM732 SERIES of Digital Multimeters

Specification

General Specification

Measurement functions:	AC voltage, DC voltage, AC current(732 01-03 only), DC current(732 01-03 only), resistance, continuity, diode and capacitance (732 02/03 only)
Additional functions:	Automatic hold, manual range selection, over-range alarm, and automatic power-off (after approx. 20 minutes)
Display:	An LCD display that is capable of indicating a significant reading of up to 4300 counts (Note) along with the various indications of the unit and function. It shows the negative polarity only; no indication is given for positive polarity. It also has an OL over-range indication and low-battery alarm indication.
Note:	The most significant reading is 210 counts for the diode test and 2300 counts for the capacitor test.
Range selection:	Manual or automatic
Samplings:	2 times/sec
Operating temperature and humidity ranges:	0°C to 50°C (accuracy guaranteed range : 23 ±5°C); non-condensing (where, the range is 0°C to 40°C for a humidity of 80% RH or below and 40°C to 50°C for a humidity of 70% RH or below)
Temperature coefficient:	Add (accuracy × 0.1)°C for the ranges of 0°C to 18°C and 28°C to 50°C
Storage temperature and humidity ranges:	-20°C to 60°C at 70% RH maximum; non-condensing
Power supply:	AAA-size batteries (ANSI).....2
Battery life:	Approximately 600 hours by alkaline batteries (of continuous battery-operation)
External dimensions:	74 (W) × 155 (H) × 31 (D) mm (excluding projections)
Weight:	Approx. 240 g (including batteries)
Approvable standards	
Safety standards:	BS EN61010-1:1993 + Amendment (600V CAT. II; 300 V CAT. III; Pollution degree 2, Indoor use); 732 01-03 (600V CAT. III; Pollution degree 2, Indoor use); 732 04 BS EN61010-2-031:1995
EMC standards:	EMI(electromagnetic interference): EN55011:1991 (Class B, Group 1) EMS(electromagnetic susceptibility): EN50082-1:1997
Effect of EMS immunity:	
Accuracy of reading:	[Rated accuracy + 5.0% of each range (4000 counts)] for electromagnetic field with a radio-frequency of 3 V/m
Operable altitude:	2000m or less above sea level
Accessories:	Batteries(housed in the instrument) 2 Testing leads 1 set Spare fuse:F05 (500 mA/250 V) 1 F02 (15 A/250 V) 1 Instruction manual 1

Electrical Specification

Test conditions:

Temperature and humidity: 23 ±5°C at 80% RH maximum
Accuracy: ±(percentage of reading + number of LSD reading)

Note: The response times noted below were measured in the Range Hold mode (manual range setting).

DC Voltage Measurement (V)

Range	Resolution	Accuracy		Input Resistance	Maximum Input Voltage
		732 01	732 02/04		
400mV	0.1mV	0.5%+1	0.3%+1	>100MΩ	600V
4V	0.001V			11MΩ	
40V	0.01V	0.75%+1	10MΩ	10MΩ	
400V	0.1V				
600V	1V				

Response time: 1.5 sec maximum for the 400 mV range and 1 sec maximum for other ranges.

AC Voltage Measurement (V)

Mean-value detection and rms-value calibration.

Range	Resolution	Accuracy(40-500Hz)			Input Resistance	Maximum Input Voltage
		732 01	732 02	732 03/04		
4V	0.001V	1%+5	0.75%+5	11MΩ<50pF	600Vrms	
40V	0.01V					
400V	0.1V					
600V	1V					

Response time: 2 sec maximum

DC Current Measurement (A) *This function is not supported on the 732 04.

Range	Resolution	Accuracy			Voltage Drop	Maximum Input Current
		732 01	732 02	732 03		
μA	400μA*1	0.1μA	1%+2		<0.17mV/μA	400 mA The input is protected by a 500 mA/250 V fuse.
	4000μA					
mA	40mA*1	0.01mA				
	400mA	0.1mA				
A	10 A ⁻²	0.01A	2%+2	<0.04V/A	10 A The input is protected by a 15 A/250 V fuse.	

*1 These ranges may produce a readout error equivalent to several times their resolution.
*2 A current of 11 to 20 A can also be measured if the time interval is kept within 30 seconds.
The buzzer will sound if the interval exceeds 30 seconds.
Response time: 1 sec maximum

AC Current Measurement (A) *This function is not supported on the 732 04.
Mean-value detection and rms-value calibration.

Range	Resolution	Accuracy(40-500Hz)			Voltage Drop	Maximum Input Current
		732 01	732 02	732 03		
μA	400μA*1	0.1μA	2%+20	2%+5	<0.17mV/μA	400 mA The input is protected by a 500 mA/250 V fuse.
	4000μA		1μA			
mA	40mA*1	0.01mA	2%+20			
	400mA	0.1mA	2%+5			
A	10A ⁻²	0.01A	2.5%+20	<0.04V/A	10 A The input is protected by a 15 A/250 V fuse.	

*1 These ranges may produce a readout error equivalent to several times their resolution.
*2 A current of 11 to 20 A can also be measured if the time interval is kept within 30 seconds.
The buzzer will sound if the interval exceeds 30 seconds.
Response time: 2 sec maximum

Resistance Measurement (Ω)

Range	Resolution	Accuracy		Measuring Current	Open-loop Voltage	Input Protective Voltage
		732 01-04				
400 Ω	0.1 Ω	0.75%+2		<1mA	<3.4V	600V
4K Ω	0.001 kΩ	0.75%+1		<0.5mA	<1.0V	
40K Ω	0.01 kΩ		<70μA			
400K Ω	0.1 kΩ	<7μA				
4M Ω	0.001 MΩ	2%+1	<0.7μA			
40M Ω	0.01 MΩ	5%+2	<70nA			

Response time: 1sec maximum for ranges lower than the 400 kΩ range, 5 sec maximum for the 4 MΩ range, and 15 sec maximum for the 40 MΩ range

Continuity Test (⦿)

Range	Resolution	Range of operation		Open-loop Voltage	Input Protective Voltage
		732 01-04			
400Ω	0.1Ω	The buzzer turns on for resistances lower than 50±20Ω.		<3.4V	600V

Response time: 0.2 sec maximum (for a buzzer response)

Diode Test

Range	Resolution	Accuracy		Open-loop Voltage	Input Protective Voltage
		732 01-04			
2V	0.01V	1%+1(for measuring currents smaller than 1.0mA)		<3.4V	600V

Response time: 1 sec maximum

Capacitor Test(-|)

Range	Resolution	Accuracy			Protection Fuse
		732 01/04	732 02	732 03	
20nF	0.01nF	This function is not available.	Typically 2% + 5 (Readings in the 20 nF range are the values after zero calibration has been completed.)		By means of a 500 mA/250 V fuse
200nF	0.1nF				
2μF	0.001μF				
20μF	0.01μF				
200μF	0.1μF				

Response time: 1sec maximum

Optional Accessories

Name	Code	Description
Fuse	F 05	500mA/250V
	F 02	15A/250V
Testing lead	RD 031	A pair of L-shaped red and black plugs
Case	B9646GB	Carrying case
	930 07	Rubber case



World Wide Web site at http://www.yokogawa.co.jp/MCC/Welcome_e.htm

NOTICE
● Before using the product, read the instruction manual carefully to ensure proper and safe operation.

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