



Dynamic range is 160% wider than the 1999 model, and the display large 18mm characters. The characters are easy to read, and all functions and unit settings can be checked with a glance.

Specifications

Measurement method: Double integration
Display: Max. 3199 LCD.


18-mm-high display characters.

Range switching: Automatic and manual (manual-only for current and frequency ranges)

Input over display:

OF or -OF (Except for 1000 VDC, 750VAC, and 10A DC/AC ranges)
Alarm buzzer (Except for 1000 VDC, 750 VAC, 10A DC/AC and resistance ranges)

Polarity display: "—" is displayed automatically.

Battery-low indication:  mark appears
Sampling rate: 2.5 times/s

Frequency measurement max. input voltage:

3231

Item	Lower Limit		Upper Limit
	Sine Wave	Rectangular Wave	
40Hz-100Hz	300Vrms	2Vp-p	150VAC
100Hz-1kHz	10Vrms	2Vp-p	150VAC
1kHz-320kHz	2Vrms	3Vp-p	100VAC

3233

Item	Lower Limit		Upper Limit
	Sine Wave	Rectangular Wave	
30Hz-320kHz	500Vrms	600Vp-p	50VAC

Operating environment

0 to 40°C, 80% RH or less, no condensation.

Power supply: 3231 AA(R6P) × 2

(Continuous use, approx. 500h).

3233 AA(R6P) × 4

(Continuous use, approx. 250h)

Dimensions/weight:

3231 160H × 85W × 33Dmm • 330g

3233 73H × 175W × 200Dmm • 800g

3231-01 • 3233 DIGITAL HiTESTER

Easy-to-read 18mm characters

- Maximum display 3199
- Large-size 18mm character height
- Frequency measurement to 320kHz
- Display hold function
- Overvoltage protection to 250VAC (Ω, μA, mA)
- Conductivity test with audible tone
- Low-power ohm.
- Auto power-off (3231)
- Capacitor measurement to 32μF (3233)
- BCD output (3233)

Measurement range (23°C ± 5°C, 80% R.H. max., no condensation)

Item	3231-01, 3231-51	3233
DCV	Range	300m/3/30/300/1000V
	Accuracy	±0.35%rdg. ±2dgt. ±0.5%rdg. ±2dgt.(300V), ±0.6%rdg. ±2dgt.(1000V)
	Input Impedance	100MΩ < (3000mV), Approx. 11MΩ (3V), Approx. 10MΩ (30V <)
ACV	Range	3/30/300/750V
	Accuracy	±1%rdg. ±4dgt.
	Input Impedance	Approx. 11MΩ (3V), 10MΩ (30V <)
DCA	Range	300μA(3231only)/30m/300m/10A
	Accuracy	±1%rdg. ±2dgt. (300μA, 30m, 300mA), ±1.2%rdg. ±2dgt.(10A)
	Internal Resistance	Approx. 10Ω (30mA)
ACA	Range	300μA(3231only)/30m/300m/10A
	Accuracy	±1.2%rdg. ±4dgt. (300μA·30m·300mA), ±1.5%rdg. ±4dgt.(10A)
	Internal Resistance	Approx. 10Ω (30mA)
Ω	Range	300/3k/300k/3000k/30MΩ
	Accuracy	±0.4%rdg. ±2dgt. (300Ω to 300kΩ), ±1%rdg. ±2dgt.(3000kΩ)
	Open Circuit Voltage	0.65V ± 0.2V > (3kΩ <)
Hz	Range	300/3k/30k/300kHz
	Accuracy	±0.15%rdg. ±2dgt.(300Hz), ±0.1%rdg. ±1dgt.(3kHz <)
	Gate Time	10s(300Hz), 1s(1kHz), 0.1s(30k to 300kHz)
C	Range	3n 30n/300n/3μF 30μF
	Frequency	1kHz(3V) 60Hz(3V) 10Hz(3V)
	Accuracy	±1.5%rdg. ±10dgt.
Accessories	9170 Test leads, 9145 Carrying case Fuse(0.5A, non arcing) 600V fuse (1A, 3231-51 provided)	9170 Test leads Fuse (0.5A, non arcing) Power cord (with power plug, for 9200)

3231-01 (with carrying case)

3231-51 (with 600V AC fuse and carrying case)

Optional Accessories

9014 DC30kV high voltage probe

9145. Carrying case

9090-03 Probes with fuse

Optional Accessories

9014 DC30kV high voltage probe

9200 Digital printer (for 3233, refer to p2)

9161 Connector cable (for 3233-9200)

9222 Recording paper (for 9200, 8.5m, 5 rolls)

9090-03 Probes with fuse