

MEASUREMENT TOOLS

A1320 Portable Sound Level Meter

Features

- Max/ Min Function.
- Low battery indication.
- External battery access door for easy battery changing.
- 200mA measuring current on continuity testing.
- AC/ DC signal output.
- IEC 651 Type II.



AJ00351

Microphone	Electret condenser microphone
Accuracy	±1.5dB (ref 94dB @ 1KHz)
Level Range	Lo=35~80dB Med= 50~100dB Hi=80~130dB
Frequency Weighing	A, C
Time Weighing	Fast, Slow
Auxiliary Outputs	AC Output Output voltage 1Vrms (at full scale) Output impedance: Approx. 600ohms DC output Output voltage: 10mV/ dB Output impedance: Approx. 50ohms
Dynamic Range	50dB
Frequency Range	31.5Hz to 8 KHz
Operation Condition	0°C~40°C (<80% R.H.)
Storage Temperature	10°C~60°C (<70% R.H.)
Battery Life	50 hours (with alkaline battery)
Power Supply	9V battery NEDA 1604, IEC 6F22, JIS 006P

1353 Integrating Sound Level Meter

Features

- Wide linearity range of 100dB – Impulse/ Fast/ Slow dynamic characteristic.
- 0.1dB Resolution – 32000 Records data logging function.
- Range from 30 to 130dB – RS-232 interface.
- A & C Frequency Weighing – Real time clock with calendar.



AJ00352

Applicable Standards	IEC Pub 651 Type 2, ANSI S 1.4 Type 2, IEC Pub 804 Type 2
Accuracy	±1.5dB (ref 94dB @ 1KHz)
Measurement Item	SPL, Leq, SEL, MaxL, MinL
Measurement Level	30dB~130dB
Linearity Range	100dB
Measurement Frequency Range	31.5Hz to 8KHz
Frequency Weight	A and C
Time Weight	Impulse, Fast and Slow
Microphone	½" Electret condenser microphone
Measurement Level C Weighing	35dB~130dB
Digital display	4 digital LCD, 0.1dB resolution, updated 0.5S
Quasi-analog bar indicator	4-dB steps, 100dB display range, updated every 100ms
Display Warning function	Displayed at the upper limit
Overrange indicator	Displayed at the lower limit
Underrange indicator	
Analog AC/ DC Output	2Vrms (at full scale), 10mVDC/dB
Power Supply	Four 1.5V LR-6/ AA size alkaline cell, AC adapter
Battery Life	About 20 hours
Operating Temperature, humidity	5~40°C, 10-90% RH
Dimensions	265 (L) x 72 (W) x 21 (H)mm, (10.4" L x 2.8" W x 0.8" H)
Weight	Approx. 310g
Accessories	Instruction manual, battery, carrying case, adjustment screwdriver, software, wind shield, RS-232 connecting cable, 9 Pin to 25 Pin gender charger, 3.5Ø plug

4116A/ 4118A LOOP/ PSC Tester

- Custom microprocessor controlled for highest accuracy and reliability.
- 3 LEDs for checking correct wiring status. Designed to meet IEC 61010-1 safety standard.
- 15mA LOOP measurement: LOOP impedance 20000 range measurement is carried out with low test current (15mA). The current will not cause tripping out involved RCD even the one with the lowest nominal differential current (30mA).
- Direct reading of Prospective Short Circuit Current (PSC) (4118A only).
- Safe voltage measurement function.
- Large custom digital display readout on all models.
- Measure low loop resistances (resolution of 0.01Ω).
- Automatic lock-out if test resistor overheats.
- Large custom digital display readout
- Visual indication of reversed phase and neutral wiring at socket
- Designed to IP54 Rating
- Complies with IEC61557



AJ00355 (4116A)
AJ00356 (4118A)

Model	4116A	4118A
Loop Impedance Ranges	20/ 200/ 2000	20/ 200/ 20000
Loop Impedance Accuracy	±2%rdg±4dgt	±2%rdg±4dgt
AC Test Current	200 25A 2000 2.3A 20000 15mA	200 25A 2000 2.3A 20000 15mA
AC Test Period	200 (20ms) 2000 (40ms) 20000 (280ms)	200 (20ms) 2000 (40ms) 20000 (280ms)
PSC Ranges	–	200A (2.3A 40ms) 2000A (25A 20ms) 20kA (25A 20ms)
PSC Ranges Accuracy	–	Consider accuracy of Loop impedance
Voltage	110V~260V ±2%rdg±4dgt	
Operating Voltage	230V + 10% - 15% (195V~253V) 50Hz	

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MEASUREMENT TOOLS

RCD Tester 5406

- Custom microprocessor controlled for highest accuracy and reliability.
- 3 neons for checking correct wiring status.
- 0 and 180 degree phase angle switch permits quick tests and consistent readings.
- Digital read-out of tripping time.
- Test DC sensitive breakers (Model 5406 only).
- Constant current source circuitry ensures that a fluctuating mains voltage does not affect the accuracy of readings (Model 5406 only).
- Large custom digital display readout on all models.
- Visual indication of reversed phase and neutral wiring at socket.
- Resilient case made from modern plastics to take everyday knocks and bangs.



AJ00357

Model	Model 5406
Rated Tripping Current	10/ 20/ 30/ 200/ 300/ 500mA
Fault Condition Setting	x1/2, x1, x5, DC
Trip Current Duration	2000ms, 200ms (x5)
Lowest Resolution	1ms
Trip Time Accuracy	±0.6%rdg±4dgt
Operating Voltage	230V±10%, 50Hz

Multi Function Tester 6010

- Live circuit warning LED: Immediate illumination of a warning lamp if the circuit under test is live
- Auto Discharge: Allows fast and safe discharge of electrical energy stored in capacitive circuits following testing
- Integral overload protection on internal continuity and insulation test circuitry.
- Autoranging.
- 500V DC test voltage for insulation test.
- 200mA shout circuit current on continuity ranges.



AJ00358

Continuity Testing

Measuring Range	0~ 19.99 and 10.0~ 199.9Ω [2 auto ranges]
Open Circuit Voltage	>4V (as per IEC364)
Short Circuit Current	>200mA DC (as per IEC364)
Accuracy	±(3%+3dgt)

Insulation Testing

Measuring Range	0~ 19.99 and 10.0~ 199.9Ω [2 auto ranges]
Test Voltage	500V DC
Output voltage on Open Circuit	570V DC ±6%
Rated Current	>1 mA (as per IEC364)
Accuracy	±(3%+3dgt)

Loop Impedance Testing

Rate Voltage	230V AC ±10% (50Hz)
Voltage Measuring Range	100~ 250V AC (50Hz)
Impedance Ranges	20/ 2000Ω
Normal Test Current	24A (20Ω range) 15mA (2000Ω range)
Test Period	1/2 cycle (10ms)
Accuracy	20Ω range: ±(3%+8dgt) 2000Ω range: ±(3%+8dgt)

RCD Testing

Rated Voltage	230V AC ±10% (50Hz)
Trip Current	RCD x 1/2:5, 15.50, 150, 250mA
Settings	RCD x 1:10, 30, 100, 300, 500mA (as per IEC364)
Trip Current Duration	RCD x 1/2 x 1:200ms
Accuracy	Trip Current ±3% of test current at 230V. Trip time ±(3%+3dgt)

Phase Indicator 8031

- Phase indicator designed to check the presence of open phase and also the phase sequence by rotating disk and lamps.
- Can check a wide range of 3 phase power source from 110V to 600V.



AJ00359

Specifications

Model	Model 8031
Operation Voltage	110~600V AC
Time limit for continuous	>500V: within 5 minutes
Frequency Response	50Hz/ 60Hz
Withstand Voltage	2200V AC for 1 minute

3404 Tacho HiTester

Precise rotation speed meter

- MIN/MAX mode, TOTAL mode, PERIOD mode, FAST/SLOW mode, and Analog output.
- Minimum 0.01 r/min resolution and high ±1 digit precision make the tachometer effective for precise measurements.
- By using the optional 9213 contact adapter, the 3404 become contact-type tachometers, while the period ring can be used in applications like measurement of conveyer line speed.
- LED and buzzer signals confirm that the light pulses reflected from the tape on the rotating body are being picked up.

Measurement range	r/ min: *1 (30.00 to 199.99) range to (20000 to 99990) range, 4 ranges, (at slow sampling mode) r/s: *2 (0.5000 to 1.9999) range to (200.0 to 1600.0) range, 4 ranges (at slow sampling mode) *1 r/min = rotation per minute, *2 r/s = rotation per second Total: Total rotation counts from 0 to 599999, Period: Measure rotation pulses from 600 μs to 2 sec.
Sampling period	Slow: 0.5 sec to 2 sec, Fast: 0.1 sec to 0.5 sec
Detection distance	Distance of 50mm (1.97 in) to 200mm (7.87 in)
Analog output	1 V DC at full-scale range output
Power Supply	R6P (AA) x 4 (continuous use of 16 hours) or AC Adapter (6V, 300mA)



AJ00361

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