

SEN60204

Electrical Safety Testing for Machinery

Machinery And Appliance Directive Tester With EN 60204 / IEC 60204



Seaward's SEN 60204 is designed to test in accordance with EN60204.1 (electrical equipment of machines) and EN60439-1 (low voltage switchgear and control assemblies). The tester provides solutions for the European Machinery Directive and The Provision of Work Equipment Regulations.

The microprocessor controlled unit allows test data to be stored in the tester's memory and results can be downloaded to a printer or Seaward results recording software.

- Testing of machines to all EN60204.1 electrical tests.
- Additional auxiliary earth bond lead connection for point to point measurement.
- 2.5kV flash test, allows testing to EN60439.
- Differential earth leakage measurement resolves multiple earths to machine under test.
- Ability to print out certificates.
- Residual voltage test via probe for single and three phase machines.

Key Functions

- Visual Inspection
- Protective Bonding Test
- Insulation Test
- Voltage Test
- Pre-Load Test
- Operations Test
- Leakage Test
- Residual Volts Decay Test

SEN60204 Users

- Machinery Testers
- Facilities Managers
- Electrical Contractors
- Manufacturers

SEN60204 SPECIFICATIONS

PROTECTIVE BONDING

TEST CURRENT:	≥10A into 0.33Ω
MEASURING RANGE:	0.05 - 5.00V
TEST THRESHOLDS:	1.0,1.4,1.9, 2.6, 3.3V
TEST CURRENT:	25A into S/C
MEASURING RANGE:	5mΩ - 0.5Ω
TEST THRESHOLDS:	0.10, 0.14, 0.19, 0.26, 0.33Ω
TEST VOLTAGE:	11V O/C @ supply Hz
ACCURACY:	± 10% ± 4 digits
METHOD:	4 WIRE (KELVIN)
TEST DURATION:	10, 20, 30, 60 SECONDS (10A) 25A LIMITED TO 10 SECONDS

INSULATION

TEST VOLTAGE:	≥500V DC @ 1 mA ¹
S/C CURRENT:	≤ 10.0 mA
MEASURING RANGE:	0.1 - 300 MΩ
TEST THRESHOLDS:	1.0 MΩ
ACCURACY:	± 8% ± 2 DIGIT UPTO 50 MΩ
TEST DURATION:	5, 10, 20, 60 SECONDS

VOLTAGE TEST

TEST VOLTAGE:	≥ 1000V O/C @ supply Hz ¹
TEST CURRENT:	> 0.5A
TEST THRESHOLD:	5, 10, 15, 20, 500mA
MEASURING INDICATION:	PASS / FAIL
TEST DURATION:	1, 2, 5, 10 SECONDS

TEST VOLTAGE:	> 2500V O/C @ supply Hz ²
TEST CURRENT:	20mA max
TEST THRESHOLD:	5, 10, 15, 20 mA
MEASURING INDICATION:	PASS / FAIL
TEST DURATION:	1, 2, 5, 10 SECONDS

¹ Available at power sockets or probe.

² Available at probe only.

RESIDUAL VOLTAGE

INPUT RANGE:	0 - 500V AC/DC ¹
MEASURING INDICATION:	30 - 370V
TEST THRESHOLD:	60 - 80V (+10% -0V) > 80V ±10% ±10V
TEST DURATION:	1 or 5 SECONDS

EXTERNAL SENSE VOLTAGE: 50 - 500V AC (50 / 60Hz)

OPERATIONS TEST

MEASURING RANGE:	0.05 - 4.0 kVA ²
ACCURACY:	± 5% ±130VA
TEST DURATION:	0.5, 1, 5, 15 minutes

EARTH LEAKAGE TEST, PASS LIMIT SELECTION

TEST THRESHOLD: 0.25, 0.75, 3.5 mA

DIMENSIONS:	410 x 370 x 160 mm
WEIGHT:	12Kg

PART NO: (259A910)



ACCESSORIES AVAILABLE

6 MTR EARTH BOND TEST LEAD	249A934
10 MTR EARTH BOND TEST LEAD	249A927
PRINTER LEAD (SERIAL PORT ONLY)	194A906
COMPUTER LEAD (FOR USE WITH PATS SOFTWARE)	
9 - 9 WAY	194A919
9 - 25 WAY	194A920
MINI PRINTER	194A911
240V 1KVA ISOLATION TRANSFORMER	219A927

UNITS COMPLETE AND PACKED

SEN60204 UK	259A910
SEN60204 GERMAN	259A911
SEN60204 DUTCH	259A912
SEN60204 ITALY	259A913
SEN60204 SWISS	259A914
SEN60204 FRENCH	259A915
SEN60204 SCHUKO	259A916
SEN60204 AMERICAN	259A917

PATS SOFTWARE

Software:	 PATGUARD ELITE (352A910)
	 PATGUARD PRO (352A920)
	 PATGUARD LITE (352A930)
	 PATGUARD WORKABOUT (336A910)
	 PATGUARD TIME MANAGER (334A910)

Training: TRAINING COURSE

PATGUARD SOFTWARE
TRAINING COURSE

Services: **SERVICE & CALIBRATION**
JUMP START



WORLD LEADERS IN SAFETY TEST AND MEASUREMENT

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