

RCDT300 Series Residual Current Device Testers

DESCRIPTION

Standard test ranges

■ The RCDT300 series can perform ΔI , 1xI and 5xI tests on RCDs rated at 30 mA, 100 mA, 300 mA and 500 mA on general and selective (time delayed) RCDs. The RCDT320 can also test RCDs rated at 10 mA and 1000 mA. All units offer DC testing of RCD's.

■ Test times for normal and Selective RCDs are:

	Normal	Selective
ΔI	2s	2s
I	300ms	2s
5I	40ms	150ms

■ 5I tests are available on RCDs rated upto 100 mA.

Polarity

■ All RCDs can be tested at 0° or 180°

Selective RCDs

■ Selective breakers have a time delay in tripping. When selected, trip test times are extended and a 30s delay is allowed between the measurement of the fault voltage and the application of the test current.

Touch voltage

■ Touch voltage is measured at the start of the RCD test. If enabled it is displayed on the analogue arc on completion of testing.

Touch voltage inhibit is selectable from 25 V or 50 V

Tough:-

- Designed to take the bashing that testers receive on site, the Megger RCDT insulation testers are rubber armoured.
- The rigid display cover folds right out of the way during testing and locks down to protect the display when it is finished.

Simple to use:-

circuit and go to stand by the RCD under test to reset it. The RCDT320 will automatically perform a ΔI, I and 5I test at both 0° and 180°. The RCD is reset each time it trips by the electrician and the tester proceeds to the next test automatically. All results are displayed at the end of the test.

- Save time and energy

Safety features:- To protect the user and the tester from incorrect use the RCDT series all has an extensive range of features known as Megger Intelligent Safety System including:

- LED connection indicators – show test lead connections and supply status
- Safety Interlock – prevents unsafe connection of test leads
- 3 Phase safe - Even if the RCDT is connected across phases, the instruments will remain safe and not be damaged.
- Test inhibit – If supply voltage exceeds 300V testing will be inhibited.

All the Megger RCDT300 series RCD testers meet or exceed the UK and International Wiring Regulations, including requirements of BS7671 and VDE 0413 parts 1 and 4, HD 384, IEC 364, NFC15-100, and NEN3140, ES59009, AS/NZS 3000 and EN 61557.

In addition the range meets the requirements of BSEN 61010-1 for safe connection to Category III supply (300 V Phase to Earth).

The new Megger electrician's testers are simple, no fuss electrical testers that are tough, reliable and easy to use. Available in separate instruments, the series consists of the:

- MIT300 range - Insulation and continuity
- LT300 range - Loop testing
- RCDT300 range - RCD testing

Between them they meet all the requirements for modern electrical testing.

	RCDT310	RCDT320
RCD testing		
ΔI, I, 5I RCD trip time test	■	■
Selective breakers	■	■
DC breakers (1/2 I, I, 5I)	■	■
30, 100, 300, 500 mA RCDs	■	■
10 mA /1 A RCDs		■
RCD trip current test (RAMP)		■
Auto sequence test		■
0°/180° polarity selection	■	■
Touch voltage display (selectable)	■	■
Max Touch voltage (25V/50 V)	■	■
Operating range 100 to 280 V		■
Operating range 50 to 290 V		■
Features		
3 Phase Safe	■	■
Large clear display	■	■
Backlight		■
Battery status indication	■	■
Auto power down	■	■
Fuse blown indication	■	■
IP54 weatherproof	■	■
Accessories		
Plug ended test lead	■	■
2 wire ended test lead probe/ croc clip ended		■
IEC61010-1 CATIII 300 V	■	■
EN61557	■	■
Calibration Certificate	■	■
3 year warranty	■	■

SPECIFICATIONS

RCD Test Ranges (to EN61557-6)

Test Current Accuracy:

No Trip Test: (ΔI) -8% to -2%

Trip Test: (I, 5I) +2% to +8%

Trip Time: ±1% ±1ms

Voltage measurement

(All Models)

Range ac: 0V - 300V 25Hz to 450Hz

Accuracy: ±2% ±2 digits

Frequency measurement

(RCDT320 only)

Range: 25Hz to 450Hz

Accuracy: 25.0Hz to 199.9Hz ±0.1Hz

200Hz to 450Hz ±1Hz

Fault (Touch) Voltage

Displayed range: 0 V to 90 V

Error: +5%/+15% ±0.5 V

Temperature and humidity

Operating Range: -5°C to +40°C

Operating Humidity: 93% R.H. at +40°C max.

Storage Range: -25°C to +70°C

Maximum altitude: 2000m

Environmental Protection: IP54

Safety

Meets the requirements of EN61010-1 Cat III 300V phase to earth.

IEC61557

Complies with the following parts of EN61557, Electrical safety in low voltage systems up to 1000 V ac and 1500 V dc- Equipment for testing, measuring or monitoring of protective measures:

Part1-General Requirements

Part4-Residual current devices

Power supply

Batteries: 8 x 1,5 V cells IEC LR6 type (AA alkaline).

Rechargeable: 8 x 1.2 V NiCd or NiMH cells.

Battery Life: 1000 consecutive tests

Weight

All units 980gms

Dimensions

All units 190 x 140 x 75 mm

E.M.C.

In accordance with IEC61326 including amendment No.1

ORDERING INFORMATION

Item (Qty)	Order Code	Item (Qty)	Order Code
RCDT310 RCD Tester 30, 100, 300, 500 mA	RCDT310-EN-BS	RCDT310 RCD Tester 30, 100, 300,500 mA	RCDT310-EN-SC
<i>Included Accessories</i>		<i>Included Accessories</i>	
Mains plug test lead (BS1363)	6220-740	Mains plug test lead (CEE 7/7)	6220-741
Test lead set and crocodile clips	6220-784	Test lead set and crocodile clips	6220-784
RCDT320 RCD Tester 10, 30, 100, 300, 500, 1000 mA	RCDT320-EN-BS	RCDT320 RCD Tester 10, 30, 100, 300, 500, 1000 mA	RCDT320-EN-SC
<i>Included Accessories</i>		<i>Included Accessories</i>	
Mains plug test lead (BS 1363)	6220-740	Mains plug test lead (CEE 7/7)	
Test lead set and crocodile clips	6220-784	Test lead set and crocodile clips (2 wire)	6220-784
RCDT310 RCD Tester 30, 100, 300, 500 mA	RCDT310-EN-AU	<i>Optional Accessories for all RCDT's</i>	
<i>Included Accessories</i>		Test lead set and crocodile clips (2 wire)	6220-784
Mains plug test lead (AS/NZS 3112)			
Test lead set and crocodile clips	6220-784		
RCDT320 RCD Tester 10, 30, 100, 300, 500, 1000 mA	RCDT320-EN-AU		
<i>Included Accessories</i>			
Mains plug test lead (AS/NZS 3112)	6220-790		
Test lead set and crocodile clips	6220-784		

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Registered to ISO 14001 Reg no. EMS 61597

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