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Megger.



RCDT300 Series

Residual Current Device Testers



- Tests standard, DC and selective RCDs
- Ramp testing
- Auto (Remote) testing
- 3 Phase safe
- Enables testing on 110 V centre tapped supplies.
- Tough rubber armoured case with built-in cover
- Weatherproof to IP54

DESCRIPTION

Standard test ranges

- The RCDT300 series can perform AI, 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

$\Delta \mathbf{I}$	2s	2s
I	300ms	2s
5 I	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:-

- No buried functions mean it is obvious how to use the Megger RCDT.
- Colour coded ranges help test range selection, reducing test times and fault location.
- A user guide in the lid provides all the basic information.

Hands free use:-

• It hangs comfortably around the neck for hands-free use because the instrument is carefully balanced.

DC sensitive RCDs

DC sensitive RCDs can be tested at ΔI , 1xI and 5xI.

Ramp testing (RCDT320)

- To measure the trip current of an RCD. Current level is slowly increased from ΔI to 1I (+10%). When the RCD trips the trip current is displayed and held on the screen.
- Very useful diagnosing nuisance tripping of RCDs.

Auto testing (RCDT320)

• Where the RCD under test and tester need to be in different locations, the user connects the RCDT320 to the



circuit and go to stand by the RCD under test to reset it. The RCDT320 will automatically perform a ΔI , I and 51 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.

AI, I, 5I RCD trip time test Image: Constraint of the set of the		RCDT310	RCDT320
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Calibration Certificate	IEC61010-1 CATIII 300 V		
	EN61557		
3 year warranty	Calibration Certificate		
	3 year warranty		



Megger.

SPECIFICATIONS		Maximum altitud	le: 2000m
RCD Test Ranges (to EN6 Test Current Accuracy:	1557-6)	Environmental I	Protection: IP54
No Trip Test:	(ΔI) –8% to –2%	6.6.6	
Trip Test:	(I, 5I) +2% to +8%	Safety Meets the requirer	nents of EN61010-1 Cat III 300V phase to earth.
Trip Time:	±1% ±1ms	IEC61557	
Voltage measurement (All Models)		low voltage syster	following parts of EN61557, Electrical safety in ns up to 1000 V ac and 1500 V dc- Equipment for or monitoring of protective measures:
Range ac:	0V - 300V 25Hz to 450Hz	Part1-General Req	
Accuracy:	$\pm 2\% \pm 2$ digits	Parté-Residual current devices	
Frequency measurement (RCDT320 only)	t	Power supply	
Range:	25Hz to 450Hz	Batteries:	8 x 1,5 V cells IEC LR6 type (AA alkaline).
Accuracy:	25.0Hz to 199.9Hz ±0.1Hz	Rechargeable: Battery Life:	8 x 1.2 V NiCd or NiMH cells. 1000 consecutive tests
Fault (Touch) Voltage Displayed range:	200Hz to 450Hz ±1Hz 0 V to 90 V	Weight All units 980gms	
Error:	+5%/+15% ±0.5 V	Dimensions All units	190 x 140 x 75 mm
Temperature and humid Operating Range:	ity −5°C to +40°C	E.M.C. In accordance wit	h IEC61326 including amendment No.1
Operating Humidity:	93% R.H. at +40°C max.		
Storage Range:	-25°C to +70°C		

ORDERING INFORMATION					
ltem (Qty)	Order Code	ltem (Qty)	Order Code		
RCDT310 RCD Tester 30, 100, 300, 500	mA	RCDT310 RCD Tester 30, 100, 300,500 mA			
	RCDT310-EN-BS		RCDT310-EN-SC		
Included Accessories		Included Accessories			
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,	RCDT320 RCD Tester 10, 30, 100, 300, 500	,		
1000 mA	RCDT320-EN-BS	1000 mA	RCDT320-EN-SC		
Included Accessories		Included Accessories			
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	Optional Accessories for all RCDT's			
Included Accessories		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	TEST EQUIPMENT			
Included Accessories		HIRE THIS PRODUCT NOW			
Mains plug test lead (AS/NZS 3112)	6220-790	WWW.INLEC.COM FREEPHONE 0800 052 1110			
Test lead set and crocodile clips	6220-784				

UK

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