

DEUTA Radar Test Bench RTD-10

Test Bench for Doppler radar sensors«





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System calibration in the depot and on track

The RTD-10 Radar Test Benches emulate real and fictitious test runs within a signal chain. They are not subject to changes in weather and are free from external influences.

RTD-10 Simulation of the moving ground

Doppler radar sensors are mounted on the under side of the vehicle and detect the speed based on the moving ground. Objects in the track bed and the timing of the positional changes of these in relation to each other form the basis for the speed capture. The RTD-10 Radar Test Bench simulates the Doppler signal of the objects in the track bed.

Component testing in the Workshop

The RTD-10 Radar Test Benches are an important part of quality assurance. Testing of functions during and following maintenance and servicing measures ensure the correct function of the signal chain: Sensor—Recorder—Indicator.

RTD-10 Radar Test Benches for System Manufacturers:

System integration, Implementation, Analysis

- Integration tests in the laboratory
- Investigation into critical incidents within safety relevant assessments in the laboratory
- Analysis of breakdowns and accident assessment in the laboratory

RTD-10 Radar Test Benches for Railway Operators:

- Cyclical testing and calibration of components in the workshop
- Operation and implementation tests following maintenance and servicing measures on the vehicle
- System testing of replacement component parts
- Function testing of replacement components prior to installation in the vehicle
- Testing of components which have been in storage (incoming and outgoing goods)
- Error diagnosis of components in the workshop

Radar Test Bench RTD-10

Feature/Specification

Voltage range	Rated supply voltage range: AC 220 V to 240 V
Power consumption	max. 80 W
Temperature range	0 °C to +50 °C (operation) 0 °C to +50 °C (storage)
EN Standards	EN 61010-1, EN 61326-1
Fire protection	EN 61010-1
Sound pressure level	60 dBA, 50 cm distance
Load resistance	### Ω, optionally
Speed range	0 km/h to 45 km/h
Simulation driving direction	forward, backward
Test method	fully automatically
Outputs	Service output „TEST“, Service output „PROG“
Interface	USB

Dimensions

Width	765 mm
Height	266 mm
Depth	852 mm
Weight	approx. 53 kg
Protection category	IP 20



DEUTA AMERICA

DEUTA AMERICA Corp.

5547 A1A South · Suite 111 · Saint Augustine, FL 32080

www.deuta-america.com

Phone: + 1 904-429-7910

Please send your enquiries and orders to:

blake.kozol@deuta-america.com



DEUTA America Corp. | 5547 A1A South | Suite 111 | Saint Augustine, FL 32080 | USA | Phone +1 (904) 429 7910 | E-Mail: info@deuta-america.com | www.deuta-america.com
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