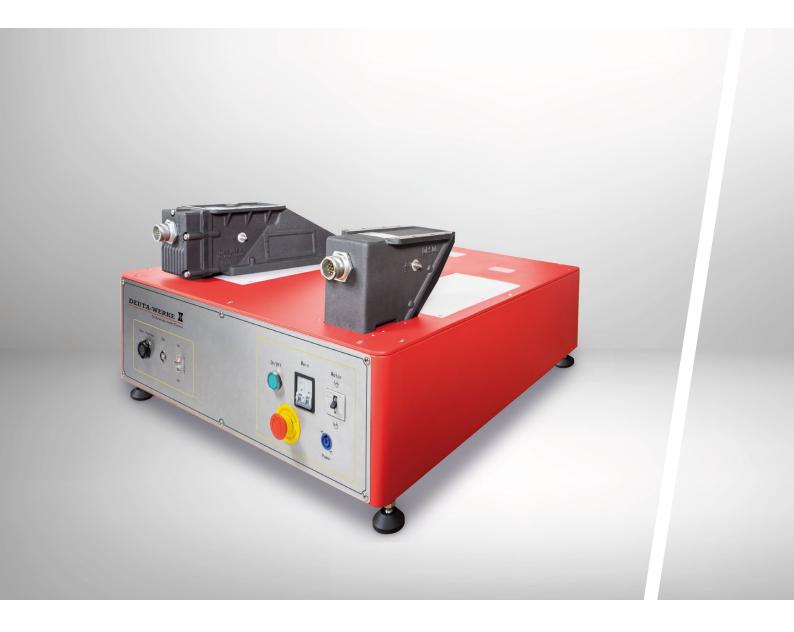
# DEUTA Radar Test Bench RTD10 Test Bench for Doppler radar sensors«





Technology under Control



# »DEUTA Radar Test Bench RTD10 -

## Test Bench for Doppler radar sensors«

The RTD10 verifies the functional characteristics of DEUTA Doppler radar sensors independently and unaffected by weather conditions or external influences. It can perform tests on both DRS05 sensors with a standard housing and DRS05S1 sensors with an integrated protective cover. Upon completion of the examination, the test bench automatically generates the test result and creates a test report.

#### RTD10 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.

#### Component testing in the Workshop

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The RTD10 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.

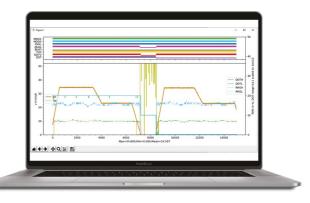
### RTD10 Radar Test Benches for Railway Operators:

- 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 laboratory environments and maintenance workshops

### Radar Test Bench RTD10

| Feature/SpecificationRated supply voltage rangeAC 220 V to 240 VPower consumptionmax. 80 WTemperature range0 °C to +50 °C (operation)<br>0 °C to +50 °C (storage)EN StandardsEN 61010-1, EN 61326-1Fire protectionEN 61010-1Sound pressure level60 dB(A), 50 cm distanceLoad resistance13 kΩ, optionallySpeed rangeapprox. 2 km/h to 40 km/hSimulation driving directionforward, backwardTest methodfully automaticllyInterfaceRS485 / RS232<br>Pulse input with switchable pull-up |                              |                            |
|---|------------------------------|----------------------------|
| Power consumptionmax. 80 WTemperature range0 °C to +50 °C (operation)<br>0 °C to +50 °C (storage)EN StandardsEN 61010-1, EN 61326-1Fire protectionEN 61010-1Sound pressure level60 dB(A), 50 cm distanceLoad resistance13 kQ, optionallySpeed rangeapprox. 2 km/h to 40 km/hSimulation driving directionfully automaticllyInterfaceRS485 / RS232  | Feature/Specification        |                            |
| Temperature range0 °C to +50 °C (operation)<br>0 °C to +50 °C (storage)EN StandardsEN 61010-1, EN 61326-1Fire protectionEN 61010-1Sound pressure level60 dB(A), 50 cm distanceLoad resistance13 kΩ, optionallySpeed rangeapprox. 2 km/h to 40 km/hSimulation driving directionforward, backwardTest methodfully automaticllyInterfaceRS485 / RS232  | Rated supply voltage range   | AC 220 V to 240 V          |
| Number0 °C to +50 °C (storage)EN StandardsEN 61010-1, EN 61326-1Fire protectionEN 61010-1Sound pressure level60 dB(A), 50 cm distanceLoad resistance13 kΩ, optionallySpeed rangeapprox. 2 km/h to 40 km/hSimulation driving directionforward, backwardTest methodfully automaticllyInterfaceRS485 / RS232   | Power consumption            | max. 80 W                  |
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| Fire protectionEN 61010-1Sound pressure level60 dB(A), 50 cm distanceLoad resistance13 kΩ, optionallySpeed rangeapprox. 2 km/h to 40 km/hSimulation driving directionforward, backwardTest methodfully automaticllyInterfaceRS485 / RS232   |                              | 0 °C to +50 °C (storage)   |
| InterfaceInterfaceSound pressure level60 dB(A), 50 cm distanceLoad resistance13 kΩ, optionallySpeed rangeapprox. 2 km/h to 40 km/hSimulation driving directionforward, backwardTest methodfully automaticllyInterfaceRS485 / RS232  | EN Standards                 | EN 61010-1, EN 61326-1     |
| Load resistance13 kΩ, optionallySpeed rangeapprox. 2 km/h to 40 km/hSimulation driving directionforward, backwardTest methodfully automaticllyInterfaceRS485 / RS232  | Fire protection              | EN 61010-1                 |
| Speed rangeapprox. 2 km/h to 40 km/hSimulation driving directionforward, backwardTest methodfully automaticllyInterfaceRS485 / RS232  | Sound pressure level         | 60 dB(A), 50 cm distance   |
| Simulation driving direction forward, backward   Test method fully automaticIly   Interface RS485 / RS232   | Load resistance              | 13 kΩ, optionally          |
| Test method fully automaticily   Interface RS485 / RS232  | Speed range                  | approx. 2 km/h to 40 km/h  |
| Interface RS485 / RS232   | Simulation driving direction | forward, backward          |
|   | Test method                  | fully automaticlly         |
|   | Interface                    | 10 100 / 110202            |

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



#### Radar Test Bench RTD10 3





resistance



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DEUTA-WERKE GmbH | Paffrather Str. 140 | 51465 Bergisch Gladbach | Germany | Phone +49 (0) 2202 958-100 | Fax +49 (0) 22 02 958-145 | E-Mail: support@deuta.de | www.deuta.com Represented by the Managing Directors: Mr. Dr. Rudolf Ganz and Mr. Thomas Blau | Register court: Amtsgericht Köln, Register number: HRB Köln 67 107 | Value added tax identification number: DE 265417448 | Pictures and articles including any other contents printed in the brochure are proprietary. The reprint, copy, distribution as well as any other actions violating the copyright are subject to prior written authorization by DEUTA-WERKE GmbH.

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