About DEUTA

DEUTA-WERKE is a market leading international supplier of electronic systems to the freight and passenger rail industry. Operating in Europe, Asia, Middle East, and the Americas.

DEUTA’s products include driver display technologies, odometry and positioning systems as well as event recorders and safety relevant controllers.

DEUTA-America Corp. is the U.S. operating entity of DEUTA-WERKE.
DEUTA, the international market leading manufacturer of locomotive and carborne railway components, supplies FRA event recorder systems for the Positive Train Control project of the Southeastern Pennsylvania Transportation Authority (SEPTA). This project requires upgrading the entire SEPTA commuter railroad fleet based on FRA CFR 49 Part 236 Subpart I. 317 vehicles in 13 different vehicle types are being equipped with one recorder version – the new DEUTA REDBOXstar.

Why DEUTA?
DEUTA's REDBOXstar was chosen based on its versatility to accommodate analog, digital, serial, USB, and Ethernet interfaces. The memory module provides sufficient and stable data storage.

The REDBOXstar integrates the specific requirements for integration in FRA/IEEE environments, accompanied with a web-based maintenance tool and ADS4 playback software.

DEUTA's REDBOXstar variants offer flexible configuration and compact dimensions - ideal for new vehicle equipment, retrofit and PTC applications in freight locomotives and mass transit vehicles. Data protection is covered by DEUTA crash hardened memory module PMU 24 (IEEE and FRA compliant).

DEUTA Crash Hardenend Event Recorder for SEPTA's PTC

Customer & Requirements
DEUTA, the international market leading manufacturer of locomotive and carborne railway components, supplies FRA event recorder systems for the Positive Train Control project of the Southeastern Pennsylvania Transportation Authority (SEPTA). This project requires upgrading the entire SEPTA commuter railroad fleet based on FRA CFR 49 Part 236 Subpart I. 317 vehicles in 13 different vehicle types are being equipped with one recorder version – the new DEUTA REDBOXstar.

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PROJECT HIGHLIGHTS
- Engineering Competence: 317 vehicles with 13 different vehicle types were equipped with the REDBOXstar
- One for all: Upgrade of the entire SEPTA commuter railroad fleet based on FRA CFR 49 Part 236 Subpart I
- Versatility: DEUTA REDBOXstar accommodates analog, digital, serial, USB, and Ethernet interfaces
- Premium Support: DEUTA’s technical support and full-length documentation provide a smooth installation, maintenance and troubleshooting
- Norms & Features: The REDBOXstar is FRA/IEEE compliant, DOT certified and interoperable with PTC

DEUTA Event Recorder REDBOXstar RBS 3 -
For PTC and customized vehicle data

REDBOXstar
- Digital inputs galvanically isolated (4KV)
- Operating temperature: -25°C to +70°C
- Storage temperature: -40°C to +85°C
- Configurable analog inputs
- RS422 and Ethernet vehicle network
- Vehicle data compatible recording
- PTC compatible recording

Hardware
- Standard power supply nominal value: 37.4 or 74 V (± 30 %)
- Crash hardened memory module with 1 GB (DOT certified)
- Ethernet ports for vehicle network, service and automatic data downloading via WLAN
- Data downloading via card reader unit, download box, ethernet or USB
- RS422 serial interface (isolated)
- Digital and analog inputs according to IEEE1482.1 (isolated)
- MIL Connectors
- Customized mounting plate
- Multi color LED for visual status information

Onboard Software (application)
Onboard Maintenance Web Interface
Playback Software (Data analysis)