

Test Certificate

1501 D DDS TSI

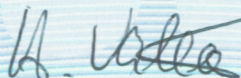
DEUTA Safety System 2nd generation

Speed detection and indication, dead-man and data recording functionality according to TSI Loc & Pas and TSI CCS

Manufacturer:	DEUTA-Werke GmbH, Bergisch Gladbach
Contract:	DEUTA-Werke GmbH – TÜV NORD Systems GmbH & Co. KG Evaluation of the possibility of TSI-compliant implementation of the speed detection and –indication, the dead-man and the data recording functionality in the DEUTA Safety System according to TSI Loc & Pas and TSI CCS
Test report:	Documentation for preparing „Gutachten zu den sicherheitsrelevanten Funktionen des DEUTA Safety System der 2. Generation (als generische Komponente)“ (Berichts-Nr.: SEBH.20131216.094103.00 vom 13.03.2015)
In accordance with:	Commission Decision of 26 April 2011 concerning a technical specification for interoperability relating to the rolling stock subsystem – ‘Locomotives and passenger rolling stock’ of the trans-European conventional rail system (TSI Loc & Pas) Commission Decision of 6 November 2012 amending Decision 2012/88/EU on the technical specification for interoperability relating to the control-command and signalling subsystem of the trans-European rail system (TSI CCS)
Object of assessment:	Confirmation that the speed detection and –indication, the dead-man and the data recording functionality of DEUTA Safety System can fulfil the requirements of the TSI Loc & Pas and TSI CCS with an appropriate configuration of the Safe Control Unit (SCU)
Finalization of assessment:	30.03.2015
Result:	When configured and integrated in a vehicle correctly, the DEUTA Safety System 2nd generation is capable to provide its safety related functions according to TSI Loc & Pas and CCS TSI. - The dead-man function can be parameterized and is able to meet the requirements of TSI Loc & Pas. - The speed detection and indication can operate various display systems (analog output, bus output). If the signals are used for further processing in an ERTMS / ETCS system (according to TSI binding interfaces are not provided) the speed detection and -indication are able to meet the requirements of TSI CCS - For the data record function intermediate statements of verification in accordance with TSI are available, which identify that the DEUTA safety system 2 nd generation is able to take over the function of the Juridical Recorder Unit on condition of an appropriate hardware configuration.

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