

ERTMS/ETCS – Class 1

Generic train data for Test Sequences

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Company	Technical Approval	Management approval
ALSTOM		
ANSALDO SIGNAL		
BOMBARDIER		
INVENSYS RAIL		
SIEMENS		
THALES		



1. MODIFICATION HISTORY

Issue Number	Section Number	Modification / Description	Author
Date			
0.0.1	All	Creation.	R. Ramos
31 May 2004			(Invensys Rail)
1.0.0	All	Edition for Delivery after the last	R. Ramos
04 November 2005		corrections by the Test Specs WG	(Invensys Rail)
1.0.1	3	Alignment of references	Oscar Rebollo
25 February 2009			



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3. **REFERENCES**

- [1] Test sequences, SUBSET-076-6-3,issue 2.3.1
- [2] Functional Requirements for an on board Reference Test Facility, SUBSET-094-0, issue 2.0.2



4. INTRODUCTION

This document describes the generic train data which should be used for the Test sequences specified within [1].

The Reference Lab [2] which will be used for running the Test sequences shall be able to simulate the train behaviour according to the train data specified within this document.

This train data is based on the Renfe locomotive S-252.



5. TRAIN DATA

5.1 S 252 Generic Train Data Set

5.1.1 S-252 Generic Train Data with only a locomotive

S_252_GENERIC_TRAIN_DATA				
Variable	Value			
INTERNATIONAL TRAIN CATEGORY	Basic Static Speed Profile			
TRAIN LENGTH	20			
NUMBER OF SERVICE BRAKE SECTIONS	2			
SERVICE BRAKE DECELERATION (1)	92 (from 0 to 159,99 km/h; x/100 m/s2)			
SERVICE BRAKE DECELERATION (2)	69 (from 160 to 220 km/h ; x/100 m/s2)			
SERVICE BRAKE SPEED (1)	0			
SERVICE BRAKE SPEED (2)	160 (1:1)			
NUMBER OF EMERGENCY BRAKE SECTIONS	2			
EMERGENCY BRAKE DECELERATION (1)	107 ((from 0 to 159,99 km/h; x/100 m/s2))			
EMERGENCY BRAKE DECELERATION (2)	80 (from 160 to 220 km/h ; x/100 m/s2)			
EMERGENCY BRAKE SPEED (1)	0			
EMERGENCY BRAKE SPEED (2)	160 (1:1)			
TIME TO CUT OFF	0			
BRAKE DELAY TIME SERVICE	6 (Resolution 0,5s)			
BRAKE DELAY TIME EMERGENCY	2.5 (Resolution 0,5s)			
MAXIMUM TRAIN SPEED	220 (1:1)			
LOADING GAUGE	1 (Not defined in Subset-026-v 2.2.2)			
AXLE LOAD	22 (Resolution 0.5t)			
POWER SUPPLY	Electric (Not defined in Subset-026-v			
	2.2.2)			
AIRTIGHT SYSTEM	NOT FITTED			
ADHESION FACTOR	NOT SLIPPERY			



5.1.2 S-252 Generic Train Data with maximum length

S_252_GENERIC_TRAIN_DATA			
Variable	Value		
INTERNATIONAL TRAIN CATEGORY	Basic Static Speed Profile		
TRAIN LENGTH	197		
NUMBER OF SERVICE BRAKE SECTIONS	2		
SERVICE BRAKE DECELERATION (1)	92		
SERVICE BRAKE DECELERATION (2)	69		
SERVICE BRAKE SPEED (1)	0		
SERVICE BRAKE SPEED (2)	160 (1:1)		
NUMBER OF EMERGENCY BRAKE SECTIONS	2		
EMERGENCY BRAKE DECELERATION (1)	107		
EMERGENCY BRAKE DECELERATION (2)	80		
EMERGENCY BRAKE SPEED (1)	0		
EMERGENCY BRAKE SPEED (2)	160 (1:1)		
TIME TO CUT OFF	0		
BRAKE DELAY TIME SERVICE	6		
BRAKE DELAY TIME EMERGENCY	2.5		
MAXIMUM TRAIN SPEED	220 (1:1)		
LOADING GAUGE	1(Not defined in Subset-026-v 2.2.2)		
AXLE LOAD	22		
POWER SUPPLY	Electric(Not defined in Subset-026-v		
	2.2.2)		
AIRTIGHT SYSTEM	NOT FITTED		
ADHESION FACTOR	NOT SLIPPERY		

The TRAIN RUNNING NUMBER does not belong to the generic train data.