

DIN EN 16185-2:2020-01 (E)

Railway applications - Braking systems of multiple unit trains - Part 2: Test methods (includes Amendment A1:20 19)

Contents		Page
European foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Symbols and abbreviations	7
5	Requirements	7
5.1	General	7
5.2	Test specification	8
5.2.1	General	8
5.2.2	Identification of the parts to be tested	8
5.2.3	General conditions for the tests	9
6	Static tests program	9
6.1	General	9
6.2	Reports	10
6.3	Documentation	10
6.4	Methodology (for type tests only)	11
6.4.1	Measurement of the friction application force	11
6.4.2	Measurement of the delay time	11
6.4.3	Measurement of the application force build-up time	11
6.4.4	Measurement of the application force release time	11
6.4.5	Measurement of the brake response time	11
6.4.6	Measurement of the pressure drop time in the brake pipe or the equalising reservoir of the driver's brake valve	12
6.4.7	Measurement of the pressure rise time in the brake pipe or the equalising reservoir of the driver's brake valve	12
6.4.8	Measurement of the dead time of the WSP dump valves	12
6.4.9	Measurement of the exhaust time of the WSP dump valves	12
6.4.10	Measurement of the fill time of the WSP dump valves	12
6.4.11	Measurement of air tightness	12
6.4.12	Measurement of braking and release times of EP assist brake	12
6.4.13	Evaluation of the longitudinal brake force applied to the track by Magnetic Track Brake or Eddy Current Brake	12
6.5	Test schedule	14
7	Dynamic tests schedule	52
7.1	General for dynamic tests	52
7.1.1	Preconditions	52
7.1.2	Test conditions	52
7.1.3	Measured variables to be recorded	53
7.1.4	Verification of deceleration and stopping distance	54
7.1.5	Definition of braked weight percentage ()	55
7.1.6	Measurement of the brake force contribution of the different brakes	55
7.2	Test program	56
Annex A (informative) Typical format for a test report for type or routine test		70
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC aimed to be covered		71
DIN EN 16185-2:2020-01 EN 16185-2:2014+A1:2019 (E) Bibliography		73