DIN CEN/TS 16794-2:2017-09 (E)

Public transport - Communication between contactless readers and fare media - Part 2: Test plan for ISO/IEC 14443; English version CEN/TS 16794-2:2017

Contents

Page

European foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 5

4 Symbols and abbreviated terms 5

5 Description of the test environment 5
5.1 Test bench 5
5.2 Tolerances applicable to ambient-environment tests 5
5.3 PCD or PICC test conditions 6
5.4 Positional tolerance 6
5.5 Admissible tolerances on the measurements 6

6 PCD - Analog test plan 6
6.1 PCD general test conditions 6
6.2 Conformance of the PCD field strength 6
6.3 Conformance of the PCD modulation waveform 8
6.4 Conformance of the PCD load modulation reception 10
6.5 Conformance of the PCD sensitivity to electromagnetic disturbance 11
6.6 TC_PCD_A_ALF: Alternating magnetic field 13

7 PICC - Analog test plan 14
7.1 PICC general test conditions 14
7.2 Conformance of the PICC characteristics 14

8 PCD - Protocol and digital test plan 20
8.1 PCD general test conditions 20
8.2 PCD Digital conformance to ISO/IEC 14443 standard series 20
8.3 Conformance of the PCD characteristics 21

9 PICC - Protocol and digital test plan 27
9.1 PICC general test conditions 27
9.2 PICC Digital conformance to ISO/IEC 14443 standard series 27
9.3 Conformance of the PICC characteristics 28

Annex A (informative) Test report templates 31

Annex B (informative) Traceability between requirements stated in CEN/TS 16794-1 and test cases stated in this document 44