

ISO/TS 22741-10:2024-10 (E)

Intelligent transport systems - Roadside modules AP-DATEX data interface - Part 10: Variable message signs

Contents

Page

- Foreword..... v
- Introduction..... vi
- 1 Scope..... 1
- 2 Normative references..... 1
- 3 Terms and definitions..... 1
- 4 Symbols and abbreviated terms..... 2
- 5 Conformance..... 2
- 6 Physical architecture..... 5
- 7 User needs..... 6
 - 7.1 Manage the control mode of the VMS..... 6
 - 7.2 Manage the sign display..... 7
 - 7.3 Monitor the sign display doors..... 7
 - 7.4 Monitor the sign display mains power..... 7
 - 7.5 Monitor the sign display power supplies..... 7
- 8 Requirements..... 7
 - 8.1 Message sign control mode..... 7
 - 8.1.1 Message sign control mode definition..... 7
 - 8.1.2 Message sign control mode data exchange requirements..... 7
 - 8.1.3 Message sign control mode capabilities..... 8
 - 8.2 Message library..... 8
 - 8.2.1 Message library definition..... 8
 - 8.2.2 Message library data exchange requirements..... 8
 - 8.2.3 Message library capabilities..... 10
 - 8.3 Sign display..... 12
 - 8.3.1 Sign display definition..... 12
 - 8.3.2 Sign display data exchange requirements..... 12
 - 8.4 Sign display doors..... 13
 - 8.4.1 Sign display doors definition..... 13
 - 8.4.2 Sign display doors data exchange requirements..... 13
 - 8.4.3 Sign display door capability requirements..... 14
 - 8.4.4 Sign display door design constraints..... 14
 - 8.5 Sign display mains power..... 14
 - 8.5.1 Sign display mains power definition..... 14
 - 8.5.2 Sign display mains power data exchange requirements..... 14
 - 8.5.3 Sign display mains power capability requirements..... 14
 - 8.5.4 Sign display mains power design constraints..... 14
 - 8.6 Sign display power supplies..... 14
 - 8.6.1 Sign display power supplies definition..... 14
 - 8.6.2 Sign display power supplies exchange requirements..... 15
 - 8.6.3 Sign display power supplies capability requirements..... 15
 - 8.6.4 Sign display power supplies design constraints..... 15
 - 8.7 Sign display light sensors..... 15
 - 8.7.1 Sign display light sensors definition..... 15
 - 8.7.2 Sign display light sensors exchange requirements..... 15
 - 8.7.3 Sign display light sensors capability requirements..... 15
 - 8.7.4 Sign display light sensors design constraints..... 15

8.8	Sign display pixels	16
8.8.1	Sign display pixels definition	16
8.8.2	Sign display pixels data exchange requirements	16
8.8.3	Sign display pixels capability	16
9	Dialogues	16
9.1	Get elemental data	16
9.2	Set elemental data	17
Annex A (normative) Data packet structures		18
Annex B (normative) Requirements traceability matrix		25
Bibliography		30