

ISO 14230-2:2013-03 (E)

Road vehicles - Diagnostic communication over K-Line (DoK-Line) - Part 2: Data link layer

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms, definitions, symbols, and abbreviated terms	1
3.1	Terms and definitions	1
3.2	Abbreviated terms	2
4	Conventions	3
5	Document overview	4
6	Physical bus topology	6
7	Data link layer overview	7
7.1	General	7
7.2	Format description of data link layer services	7
7.3	Services provided by the data link layer to higher layers	7
7.4	Specification of DoK-Line data link layer service primitives	8
7.5	Service data unit specification	10
8	Protocol initialization	14
8.1	General	14
8.2	Timing parameters for 5-BAUD_INIT	14
8.3	Protocol determination	15
8.4	Protocol-specific key bytes	23
9	Message definition	26
9.1	Message structure	26
9.2	Message header	27
9.3	Protocol data unit (PDU)	29
9.4	Checksum byte (CS)	29
10	Protocol timing requirements	30
10.1	General timing measurement requirements	30
10.2	Protocol timing parameter definition	30
10.3	Inter-byte message timing	31
10.4	Data link layer timing at T-Data interface	33
11	Communication services	35
11.1	StartCommunication service	35
11.2	StopCommunication service	36
11.3	AccessTimingParameter service	38
11.4	SendData service	41
12	Data collisions	41

13	Error handling	42
13.1	Error handling during physical/functional 5-BAUD initialization	42
13.2	Error handling during physical/functional FAST_INIT	43
13.3	Error handling after physical/functional initialization	45
Annex A (normative) Server and client addresses for 5-BAUD_INIT		47
Annex B (informative) Recommended server and client addresses		48
Annex C (informative) Protocol comparison of initialization sequence		49
Bibliography		50