
Changes to legislation: There are currently no known outstanding effects for the Council Regulation (EEC) No 3821/85, Division 6.. (See end of Document for details)

[^{F1}]^{F2}ANNEX I B

REQUIREMENTS FOR CONSTRUCTION, TESTING, INSTALLATION AND INSPECTION

Textual Amendments

- F1** Inserted by Council Regulation (EC) No 2135/98 of 24 September 1998 amending Regulation (EEC) No 3821/85 on recording equipment in road transport and Directive 88/599/EEC concerning the application of Regulations (EEC) No 3820/85 and (EEC) No 3821/85.
- F2** Substituted by Commission Regulation (EC) No 1360/2002 of 13 June 2002 adapting for the seventh time to technical progress Council Regulation (EEC) No 3821/85 on recording equipment in road transport (Text with EEA relevance).

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Appendix 8

CALIBRATION PROTOCOL

6. DATA TRANSMISSION SERVICES

The services available are detailed in the following table:

TABLE 24

Data transmission services

Service name	Description
ReadDataByIdentifier	The client requests the transmission of the current value of a record with access by recordDataIdentifier
WriteDataByIdentifier	The client requests to write a record accessed by recordDataIdentifier

6.1. ReadDataByIdentifier service

6.1.1. Message description

The ReadDataByIdentifier service is used by the client to request data record values from a server. The data are identified by a recordDataIdentifier. It is the VU manufacturer's responsibility that the server conditions are met when performing this service.

6.1.2. Message format

The message formats for the ReadDataByIdentifier primitives are detailed in the following tables:

TABLE 25

ReadDataByIdentifier request message

Byte #	Parameter Name	Hex value	Mnemonic
#1	Format byte — physical addressing	80	FMT
#2	Target address byte	EE	TGT
#3	Source address byte	tt	SRC
#4	Additional length byte	03	LEN
#5	ReadDataByIdentifier Request Service Id	22	RDBI
#6 and #7	[^{x1} recordDataIdentifier = (a value from Table 8)]	xxxx	RDI_ ...
#8	Checksum	00-FF	CS

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Editorial Information

- X1** Substituted by Corrigendum to Commission Regulation (EC) No 1360/2002 of 13 June 2002 adapting for the seventh time to technical progress Council Regulation (EEC) No 3821/85 on recording equipment in road transport (Official Journal of the European Communities L 207 of 5 August 2002).

TABLE 26

ReadDataByIdentifier positive response message

Byte #	Parameter Name	Hex value	Mnemonic
#1	Format byte — physical addressing	80	FMT
#2	Target address byte	tt	TGT
#3	Source address byte	EE	SRC
#4	Additional length byte	m+3	LEN
#5	ReadDataByIdentifier Positive Response Service Id	62	RDBIPR
#6 and #7	recordDataIdentifier = (the same value as bytes #6 and #7 Table 25)	xxxx	RDI_ ...
#8 to #m+7	dataRecord() = (data#1 : data#m)	xx : xx	DREC_DATA1 : DREC_DATAm
#m+8	Checksum	00-FF	CS

TABLE 27

ReadDataByIdentifier negative response message

Byte #	Parameter Name	Hex value	Mnemonic
#1	Format byte — physical addressing	80	FMT
#2	Target address byte	tt	TGT
#3	Source address byte	EE	SRC
#4	Additional length byte	03	LEN
#5	NegativeResponse Service Id	7F	NR
#6	ReadDataByIdentifier Request Service Id	22	RDBI

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#7	ResponseCode = (requestOutOfRange incorrectMessageLength conditionsNotCorrect)	31 13 22	RC_ROOR RC_IML RC_CNC
	Checksum	00-FF	CS

6.1.3. Parameter definition

The parameter recordDataIdentifier (RDI_) in the ReadDataByIdentifier request message identifies a data record.

recordDataIdentifier values defined by this document are shown in the table below.

The recordDataIdentifier table consists of four columns and multiple lines.

- The first column (Hex) includes the ‘hex value’ assigned to the recordDataIdentifier specified in the third column.
- The second column (Data element) specifies the data element of Appendix 1 on which the recordDataIdentifier is based (transcoding is sometimes necessary).
- The third column (Description) specifies the corresponding recordDataIdentifier name.
- The fourth column (Mnemonic) specifies the mnemonic of this recordDataIdentifier.

TABLE 28

Definition of recordDataIdentifier values

Hex	Data element	recordDataIdentifier Name(see format in Section 8.2)	Mnemonic
F90B	<i>CurrentDateTime</i>	TimeDate	RDI_TD
F912	<i>HighResOdometer</i>	HighResolutionTotalVehicleDistance	RDI_HRTVD
F918	<i>K-ConstantOfRecordingEquipment</i>	Kfactor	RDI_KF
F91C	<i>L-TyreCircumference</i>	LfactorTyreCircumference	RDI_LF
F91D	<i>W-VehicleCharacteristicConstant</i>	WvehicleCharacteristicConstant	RDI_WVCF
F921	<i>TyreSize</i>	TyreSize	RDI_TS
F922	<i>nextCalibrationDate</i>	NextCalibrationDate	RDI_NCD
F92C	<i>SpeedAuthorised</i>	SpeedAuthorised	RDI_SA
F97D	<i>vehicleRegistrationNationality</i>	RegisteringMemberState	RDI_RMS
F97E	<i>VehicleRegistrationNumber</i>	VehicleRegistrationNumber	RDI_VRN
F190	<i>VehicleIdentificationNumber</i>	VIN	RDI_VIN

The parameter dataRecord (DREC_) is used by the ReadDataByIdentifier positive response message to provide the data record value identified by the recordDataIdentifier to the client (tester). Data formats are specified in Section 8. Additional user optional dataRecords including

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VU specific input, internal and output data may be implemented, but are not defined in this document.

6.2. WriteDataByIdentifier service

6.2.1. Message description

The WriteDataByIdentifier service is used by the client to write data record values to a server. The data are identified by a recordDataIdentifier. It is the VU manufacturer's responsibility that the server conditions are met when performing this service. To update the parameters listed in Table 28 the VU must be in CALIBRATION mode.

6.2.2. Message format

The message formats for the WriteDataByIdentifier primitives are detailed in the following tables:

TABLE 29

WriteDataByIdentifier request message

Byte #	Parameter Name	Hex value	Mnemonic
#1	Format byte — physical addressing	80	FMT
#2	Target address byte	EE	TGT
#3	Source address byte	tt	SRC
#4	Additional length byte	m+3	LEN
#5	WriteDataByIdentifier request service Id	2E	WDBI
#6 and #7	recordDataIdentifier = (a value from Table 28)	xxxx	RDI_ ...
#8 to #m+7	dataRecord() = (data#1 : data#m)	xx : xx	DREC_DATA1 : DREC_DATAm
#m+8	Checksum	00-FF	CS

TABLE 30

WriteDataByIdentifier positive response message

Byte #	Parameter Name	Hex value	Mnemonic
#1	Format byte — physical addressing	80	FMT
#2	Target address byte	tt	TGT
#3	Source address byte	EE	SRC
#4	Additional length byte	03	LEN

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#5	WriteDataByIdentifier positive response service Id	6E	WDBIPR
#6 and #7	recordDataIdentifier = (the same value as bytes #6 and #7 Table 29)	xxxx	RDI_ ...
#8	Checksum	00-FF	CS

TABLE 31

WriteDataByIdentifier negative response message

Byte #	Parameter Name	Hex value	Mnemonic
#1	Format byte — physical addressing	80	FMT
#2	Target address byte	tt	TGT
#3	Source address byte	EE	SRC
#4	Additional length byte	03	LEN
#5	NegativeResponse Service Id	7F	NR
#6	WriteDataByIdentifier request service Id	2E	WDBI
#7	ResponseCode = (requestOutOfRange incorrectMessageLength conditionsNotCorrect)	31 13	RC_ROOR RC_IML
		22	RC_CNC
#8	Checksum	00-FF	CS

6.2.3. Parameter definition

The parameter recordDataIdentifier (RDI_) is defined in Table 28.

The parameter dataRecord (DREC_) is used by the WriteDataByIdentifier request message to provide the data record values identified by the recordDataIdentifier to the server (VU). Data formats are specified in Section 8.]]

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