

DIN EN 15430-1:2008-03 (E)

Winter and road service area maintenance equipments - Data acquisition and transmission - Part 1: In vehicle data acquisition

Contents		Page
Foreword		3
Introduction		4
1	Scope	6
2	Normative references	6
3	Terms and abbreviations	6
4	Communication between vehicle/equipment and board-computer	6
4.1	General	6
4.2	Communication through RS232	7
4.2.1	RS232 interface on vehicle/equipment "Data transmission handler"	7
4.2.2	RS232 interface on "Board-computer"	7
4.2.3	Communication protocol	8
5	Definitions of variables, records and report	12
5.1	General	12
5.2	Variable types	12
5.3	Recommended SLOTS for variable definitions	15
5.4	Definition of variables	18
5.4.1	General	18
5.4.2	General variables	18
5.4.3	General geographic position system variables	20
5.4.4	General vehicle and route variables	21
5.4.5	General road weather and road condition variables	21
5.4.6	Plough / Broom variables	22
5.4.7	Snow blower or cutter variables	23
5.4.8	Spreader / sprayer variables	23
5.4.9	Grass or branch cutting machine variables	26
5.4.10	Sweeper variables	27
5.4.11	Safety post cleaning machine variables	28
5.4.12	Boat plants cutter variables	29
5.5	Definition of records	29
5.5.1	General	29
5.5.2	Time synchronisation record (record code 0)	30
5.5.3	Standard header record (record code 1)	31
5.5.4	Standard footer record (record code 2)	32
5.5.5	Trigger conditions for record code 3 and higher	32
5.5.6	Geographic position data record (record code 3)	33
5.5.7	Vehicle and route data record (record code 4)	34
5.5.8	Weather and road condition data record (record code 5)	35
5.5.9	Snowplough / broom data record (record code 6 / 7)	36
5.5.10	Spreader / sprayer data record (record code 8)	37
5.5.11	Snow blower / cutter data record (record code 9)	39
5.5.12	Grass / branch cutter data record (record code 10)	40
5.5.13	Sweeper data record (record code 11)	42
5.5.14	Safety post cleaning machine data record (record code 12)	43
5.5.15	Boat plants cutter data record (record code 13)	44
5.5.16	Free definable data record (record code 10000 and higher)	44

5.6	Report definition	45
	Bibliography	47