5.5 Datagram specifications

5.5.1 Part Number datagram

Table 5-13: Specification of the Part Number datagram

Byte#	Bit# 7	6	5	4	3	2	1	0	Specification
0	1 1	0 0	1 1	1 1	0 0	0 0	0 1	1 1	**Part Number datagram identifier:** 0xB1 for datagrams without CR+LF termination 0xB3 for datagrams with CR+LF termination
1	0	0	0	0	$P1_3$	$P1_2$	$P1_1$	$P1_0$	Low nibble: 1.digit of part number
2	$P2_3$	$P2_2$	$P2_1$	$P2_0$	$P3_3$	$P3_2$	$P3_1$	$P3_0$	High nibble: 2.digit of part number Low nibble: 3.digit of part number
3	$P4_3$	$P4_2$	$P4_1$	$P4_0$	$P5_3$	$P5_2$	$P5_1$	$P5_0$	High nibble: 4.digit of part number Low nibble: 5.digit of part number
4	0	0	1	0	1	1	0	1	ASCII character "-" (0x2D)
5	$P6_3$	$P6_2$	$P6_1$	$P6_0$	$P7_3$	$P7_2$	$P7_1$	$P7_0$	High nibble: 6.digit of part number Low nibble: 7.digit of part number
6	$P8_3$	$P8_2$	$P8_1$	$P8_0$	$P9_3$	$P9_2$	$P9_1$	$P9_0$	High nibble: 8.digit of part number Low nibble: 9.digit of part number
7	$P10_3$	$P10_2$	$P10_1$	$P10_0$	$P11_3$	$P11_2$	$P11_1$	$P11_0$	High nibble: 10.digit of part number Low nibble: 11.digit of part number
8	0	0	1	0	1	1	0	1	ASCII character "-" (0x2D)
9	$P12_3$	$P12_2$	$P12_1$	$P12_0$	$P13_3$	$P13_2$	$P13_1$	$P13_0$	High nibble: 12.digit of part number Low nibble: 13.digit of part number
10	$P14_3$	$P14_2$	$P14_1$	$P14_0$	$P15_3$	$P15_2$	$P15_1$	$P15_0$	High nibble: 14.digit of part number (least significant nibble) Low nibble: 14.digit of part number (most significant nibble)
11	x	x	x	x	x	x	x	x	For future use
12	x	x	x	x	x	x	x	x	For future use
13	x	x	x	x	x	x	x	x	For future use
14	x	x	x	x	x	x	x	x	For future use
15	r_7	r_6	r_5	r_4	r_3	r_2	r_1	r_0	Part number revision. Content of byte represents the ASCII-character of the revision. Numbering sequence: "-", "A", "B", …., "Z"
16	c_{31}	c_{30}	c_{29}	c_{28}	c_{27}	c_{26}	c_{25}	c_{24}	Cyclic Redundancy Check is performed on all preceding bytes, ref: 5.5.7
17	c_{23}	c_{22}	c_{21}	c_{20}	c_{19}	c_{18}	c_{17}	c_{16}	
18	c_{15}	c_{14}	c_{13}	c_{12}	c_{11}	c_{10}	c_9	c_8	
19	c_7	c_6	c_5	c_4	c_3	c_2	c_1	c_0	
(20)	0	0	0	0	1	1	0	1	<CR> If datagram termination has been selected
(21)	0	0	0	0	1	0	1	0	<LF> If datagram termination has been selected

Table 5-14: Converting information in the Part Number datagram to ASCII

Digit in part number	Value for conversion	ASCII-code if value < 10	ASCII-code if value ≥ 10
1.digit of part number	P1	P1 + 48	P1 + 55
2.digit of part number	P2	P2 + 48	P2 + 55
3.digit of part number	P3	P3 + 48	P3 + 55
4.digit of part number	P4	P4 + 48	P4 + 55
5.digit of part number	P5	P5 + 48	P5 + 55
-		45	45
6.digit of part number	P6	P6 + 48	P6 + 55
7.digit of part number	P7	P7 + 48	P7 + 55
8.digit of part number	P8	P8 + 48	P8 + 55
9.digit of part number	P9	P9+ 48	P9+ 55
10.digit of part number	P10	P10+ 48	P10+ 55
11.digit of part number	P11	P11 + 48	P11 + 55
-		45	45
12.digit of part number	P12	P12 + 48	P12 + 55
13.digit of part number	P13	P13 + 48	P13 + 55
14.digit of part number	$P14 + P15*2^4$	$(P14 + P15*2^{4)} + 48$	$(P14 + P15*2^{4)} + 55$