11 Definition of commands

11.1 General

Unused opcodes are reserved for future needs.

11.2 Overview sheets

Table 17 gives an overview of the standard commands. The special commands overview can be found in Table 18.

Table 17 – Standard commands

Command name	Address byte		Opcode byte	Ed. 1 command number	DTR0	DTR1	DTR2	Answer	Send twice	References	Command reference
	See 7.2.2	Select or bit									
DAPC (*level*)	*Device*	0	*level*	-						9.4, 9.7.3, 9.8	11.3.1
OFF	*Device*	1	0x00	0						9.7.2	11.3.2
UP	*Device*	1	0x01	1						9.7.3	11.3.3
DOWN	*Device*	1	0x02	2						9.7.3	11.3.4
STEP UP	*Device*	1	0x03	3						9.7.2	11.3.5
STEP DOWN	*Device*	1	0x04	4						9.7.2	11.3.6
RECALL MAX LEVEL	*Device*	1	0x05	5						9.7.2, 9.14.3	11.3.7
RECALL MIN LEVEL	*Device*	1	0x06	6						9.7.2, 9.14.3	11.3.8
STEP DOWN AND OFF	*Device*	1	0x07	7						9.7.2	11.3.9
ON AND STEP UP	*Device*	1	0x08	8						9.7.2	11.3.10
ENABLE DAPC SEQUENCE	*Device*	1	0x09	9						9.8	11.3.11
GO TO LAST ACTIVE LEVEL	*Device*	1	0x0A							9.7.3	11.3.12
CONTINUOUS UP	*Device*	1	0x0B							9.7.3	11.3.13

Command name	Address byte		Opcode byte	Ed. 1 command number	DTR0	DTR1	DTR2	Answer	Send twice	References	Command reference
	See 7.2.2	Select or bit									
CONTINUOUS DOWN	*Device*	1	0x0C							9.7.3	11.3.14
GO TO SCENE (*sceneNumber*)[a]	*Device*	1	0x10 + *sceneNumber*	16 to 31						9.7.3, 9.19	11.3.15
RESET	*Device*	1	0x20	32					✓	9.11.1, 10	11.4.2
STORE ACTUAL LEVEL IN DTR0	*Device*	1	0x21	33	✓				✓		11.4.3
Reserved[b]	*Device*	1	0x22 [b]						✓		
SET OPERATING MODE (*DTR0*)	*Device*	1	0x23		✓				✓	9.9	11.4.4
RESET MEMORY BANK (*DTR0*)	*Device*	1	0x24		✓				✓	9.11.2	11.4.5
IDENTIFY DEVICE	*Device*	1	0x25						✓	9.14.3	11.4.6
SET MAX LEVEL (*DTR0*)	*Device*	1	0x2A	42	✓				✓	9.6	11.4.7
SET MIN LEVEL (*DTR0*)	*Device*	1	0x2B	43	✓				✓	9.6	11.4.8
SET SYSTEM FAILURE LEVEL (*DTR0*)	*Device*	1	0x2C	44	✓				✓	9.12	11.4.9
SET POWER ON LEVEL (*DTR0*)	*Device*	1	0x2D	45	✓				✓	9.13	11.4.10
SET FADE TIME (*DTR0*)	*Device*	1	0x2E	46	✓				✓	9.5.2	11.4.11
SET FADE RATE (*DTR0*)	*Device*	1	0x2F	47	✓				✓	9.5.3	11.4.12
SET EXTENDED FADE TIME (*DTR0*)	*Device*	1	0x30		✓				✓	9.5.4	11.4.13
SET SCENE (*DTR0, sceneX*)[a]	*Device*	1	0x40 + *sceneNumber*	64 to 79	✓				✓	9.19	11.4.14
REMOVE FROM SCENE (*sceneX*)[a]	*Device*	1	0x50 + *sceneNumber*	80 to 95					✓	9.19	11.4.15
ADD TO GROUP (*group*)[a]	*Device*	1	0x60 + *group*	96 to 111					✓		11.4.16
REMOVE FROM GROUP (*group*)[a]	*Device*	1	0x70 + *group*	112 to 127					✓		11.4.17
SET SHORT ADDRESS (*DTR0*)	*Device*	1	0x80	128	✓				✓	9.14.4	11.4.18
ENABLE WRITE MEMORY	*Device*	1	0x81	129					✓	9.10.6	11.4.19

Command name	Address byte		Opcode byte	Ed. 1 command number	DTR0	DTR1	DTR2	Answer	Send twice	References	Command reference
	See 7.2.2	Select or bit									
Reserved for IEC 62386-104 (see [3])	*Device*	1	0x82		✓						
QUERY STATUS	*Device*	1	0x90	144				✓		9.16	11.5.2
QUERY CONTROL GEAR PRESENT	*Device*	1	0x91	145				✓			11.5.3
QUERY LAMP FAILURE	*Device*	1	0x92	146				✓			11.5.4
QUERY LAMP POWER ON	*Device*	1	0x93	147				✓			11.5.6
QUERY LIMIT ERROR	*Device*	1	0x94	148				✓			11.5.7
QUERY RESET STATE	*Device*	1	0x95	149				✓			11.5.8
QUERY MISSING SHORT ADDRESS	*Device*	1	0x96	150				✓		9.14.2	11.5.9
QUERY VERSION NUMBER	*Device*	1	0x97	151				✓			11.5.10
QUERY CONTENT DTR0	*Device*	1	0x98	152	✓			✓			11.5.11
QUERY DEVICE TYPE	*Device*	1	0x99	153				✓		9.18	11.5.12
QUERY PHYSICAL MINIMUM	*Device*	1	0x9A	154				✓			11.5.13
QUERY POWER FAILURE	*Device*	1	0x9B	155				✓			11.5.15
QUERY CONTENT DTR1	*Device*	1	0x9C	156		✓		✓			11.5.16
QUERY CONTENT DTR2	*Device*	1	0x9D	157			✓	✓			11.5.17
QUERY OPERATING MODE	*Device*	1	0x9E					✓		9.9	11.5.18
QUERY LIGHT SOURCE TYPE	*Device*	1	0x9F		✓	✓	✓	✓			11.5.19
QUERY ACTUAL LEVEL	*Device*	1	0xA0	160				✓			11.5.20
QUERY MAX LEVEL	*Device*	1	0xA1	161				✓			11.5.21
QUERY MIN LEVEL	*Device*	1	0xA2	162				✓			11.5.22
QUERY POWER ON LEVEL	*Device*	1	0xA3	163				✓		9.13	11.5.23
QUERY SYSTEM FAILURE LEVEL	*Device*	1	0xA4	164				✓		9.12	11.5.24

Command name	Address byte		Opcode byte	Ed. 1 command number	DTR0	DTR1	DTR2	Answer	Send twice	References	Command reference
	See 7.2.2	Select or bit									
QUERY FADE TIME/FADE RATE	*Device*	1	0xA5	165				✓			11.5.25
QUERY MANUFACTURER SPECIFIC MODE	*Device*	1	0xA6					✓		9.9	11.5.27
QUERY NEXT DEVICE TYPE	Device	1	0xA7					✓		9.18	11.5.13
QUERY EXTENDED FADE TIME	Device	1	0xA8					✓		9.5.4	11.5.26
QUERY CONTROL GEAR FAILURE	Device	1	0xAA					✓		9.16.2	11.5.4
Reserved for IEC 62386-104 (see [3])	Device	1	0xAB					✓			
QUERY SCENE LEVEL (*sceneX*)[a]	*Device*	1	0xB0 + *sceneNumber*	176 to 191				✓		9.19	11.5.28
QUERY GROUPS 0-7	*Device*	1	0xC0	192				✓			11.5.29
QUERY GROUPS 8-15	*Device*	1	0xC1	193				✓			11.5.30
QUERY RANDOM ADDRESS (H)	*Device*	1	0xC2	194				✓			11.5.31
QUERY RANDOM ADDRESS (M)	*Device*	1	0xC3	195				✓			11.5.32
QUERY RANDOM ADDRESS (L)	*Device*	1	0xC4	196				✓			11.5.33
READ MEMORY LOCATION (*DTR1, DTR0*)	*Device*	1	0xC5	197	✓	✓		✓		9.10.5	11.5.34
Application extended commands	*Device*	1	0xE0 to 0xFE	224 to 254	?	?	?	?	?	9.18	11.6
QUERY EXTENDED VERSION NUMBER	*Device*	1	0xFF	255				✓			11.6.2

[a] There is one command per scene, so there are actually 16 commands for scenes 0 to 15. Similarly for the 16 group commands.

[b] Reserved to maintain backward compatibility due to use in Edition 2 of IEC 62386-102:2014 (see [2]).