

Binairy format:

<SOF-SID10...SID0-RTR-IDE-r0-DLC3...0-DATABYTE1...DATABYTEn-CRC15...CRC1-CRCDEL-ACK-ACKDEL-EOF7...EOF1-IFS3...IFS1>

bits	Description
SOF	Start Of Frame (always 0)
SID10 & SID9	Priority (00: highest 11: lowest priority)
SID8SID1	Address
SID0	Always 0
RTR	Remote Transmit Request
IDE	Identifier Extension (always 0)
r0	reserved (always 0)
DLC3DLC0	Data Length Code (08)
Databyte1	Command
Databyte2	Parameter
Databyte3	Parameter
Databyte4	Parameter
Databyte5	Parameter
Databyte6	Parameter
Databyte7	Parameter
Databyte8	Parameter
CRC15CRC1	Cyclic Redundancy Checksum
CRCDEL	CRC Delimiter (always 1)
ACK	Acknowledge slot (transmit 1 readback 0 if received correctly)
ACKDEL	Acknowledge Delimiter (always 1)
EOF7EOF1	End Of Frame (always 1111111)
IFS3IFS1	InterFrame Space (always 111)

The module can transmit the following messages:

- Channel status
- Module status
- Module type
- Bus error counter status
- Memory data
- Memory data block (4 bytes)
- Real-time clock status
- Date status
- Daylight savings status
- Real-time clock status request
- Clear linked push button led
- Set linked push button led
- Slow blink linked push button led

The module can receive the following commands:

- Linked push button status
- Module type request
- Module status request
- Light value request
- Set or clear test mode
- Clear channel led
- Set channel led
- Slow blink channel led
- Fast blink channel led
- Very fast channel led
- Update channel leds
- Read memory data
- Read memory data block (4 bytes)
- Memory dump request
- Write memory data
- Write memory data block (4 bytes)

- Bus error counter status request
- Real-time clock status request
- Set real-time clock
- Set date
- Set daylight savings
- Enable/disable global sunrise/sunset related actions
- Enable/disable local sunrise/sunset related actions
- Set local alarm clock
- Set global alarm clock
- Lock channel
- Unlock channel
- Disable channel program
- Enable channel program
- Select program

Transmits real time clock status request:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = H'00'

RTR = 0

DLC3...DLC0 = 1 databyte to send

DATABYTE1 = COMMAND_REALTIME_CLOCK_STATUS_REQUEST (H'D7')

Transmits the real time clock status:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 4 databytes to send

DATABYTE1 = COMMAND REALTIME CLOCK STATUS (H'D8')

DATABYTE2 = Day

Contents	Day
0	Monday
1	Tuesday
2	Wednesday
3	Thursday
4	Friday
5	Saturday
6	Sunday

DATABYTE3 = $\overline{\text{Hour}(0...23)}$ DATABYTE4 = $\overline{\text{Minute}(0...59)}$

Transmits the date status:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 5 databytes to send

DATABYTE1 = COMMAND DATE STATUS (H'B7')

DATABYTE2 = Day (1...31)

DATABYTE3 = Month (1...12)

DATABYTE4 = High byte of Year

DATABYTE5 = Low byte of Year

Transmits the daylight savings status:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes to send

DATABYTE1 = COMMAND DAYLIGHT SAVING STATUS (H'AF')

DATABYTE2 = 0 =disabled $\overline{1}$ = enabled

Transmits the channel switch status:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 4 databytes to send

DATABYTE1 = COMMAND PUSH BUTTON STATUS (H'00')

DATABYTE2 = Channel just pressed

DATABYTE3 = Channel just released

DATABYTE4 = Channel long pressed

Contents	Channel number
B'00000001'	Dark output
B'00000010'	Light output
B'00000100'	Motion 1 output
B'00001000'	Light depending motion 1 output
B'00010000'	Motion 2 output
B'00100000'	Light depending motion 2 output
B'01000000'	Absence output

Transmits the module type:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 7 databytes to send

DATABYTE1 = COMMAND_MODULE_TYPE (H'FF')

DATABYTE2 = VMBPIRC type (H'2B') DATABYTE3 = High byte of serial number

DATABYTE4 = Low byte of serial number

DATABYTE5 = Memorymap version

DATABYTE6 = Build year DATABYTE7 = Build week

Transmits the module status:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 8 databytes to send

DATABYTE1 = COMMAND_MODULE_STATUS (H'ED')

DATABYTE2 = channel status (1 = pressed / 0 = released)

Contents	Channel status
B'xxxxxxx0'	Dark output off
B'xxxxxxx1'	Dark output on
B'xxxxxx0x'	Light output off
B'xxxxxx1x'	Light output on
B'xxxxx0xx'	Motion 1 output off
B'xxxxx1xx'	Motion 1 output on
B'xxxx0xxx'	Light depending motion 1 output off
B'xxxx1xxx'	Light depending motion 1 output on
B'xxx0xxxx'	Motion 2 output off
B'xxx1xxxx'	Motion 2 output on
B'xx0xxxxx'	Light depending motion 2 output off
B'xx1xxxxx'	Light depending motion 2 output on
B'x0xxxxxx'	Absence output off
B'x1xxxxxx'	Absence output on

DATABYTE3 = light sensor value high byte

DATABYTE4 = light sensor value low byte

DATABYTE5 = test modus or locked channel status (0 = unlocked / 1 = locked)

Contents	Test modus or locked status
B'xxxxxxx0'	Dark output unlocked
B'xxxxxxx1'	Dark output locked
B'xxxxxx0x'	Light output unlocked
B'xxxxxx1x'	Light output locked
B'xxxxx0xx'	Motion 1 output unlocked
B'xxxxx1xx'	Motion 1 output locked
B'xxxx0xxx'	Light depending motion 1 output unlocked
B'xxxx1xxx'	Light depending motion 1 output locked
B'xxx0xxxx'	Motion 2 output unlocked
B'xxx1xxxx'	Motion 2 output locked
B'xx0xxxxx'	Light depending motion 2 output unlocked
B'xx1xxxxx'	Light depending motion 2 output locked
B'x0xxxxxx'	Absence output unlocked
B'x1xxxxxx'	Absence output locked
B'0xxxxxxx'	Normal modus
B'1xxxxxxx'	Test modus

DATABYTE6 = disabled channel program status (0 = program enabled / 1 = program disabled)

Contents	Program disabled status
B'xxxxxxx0'	Dark output program enabled
B'xxxxxxx1'	Dark output program disabled
B'xxxxxx0x'	Light output program enabled
B'xxxxxx1x'	Light output l program disabled
B'xxxxx0xx'	Motion 1 output program enabled
B'xxxxx1xx'	Motion 1 output program disabled
B'xxxx0xxx'	Light depending motion 1 output program enabled
B'xxxx1xxx'	Light depending motion 1 output program disabled
B'xxx0xxxx'	Motion 2 output program enabled
B'xxx1xxxx'	Motion 2 output 1 program disabled
B'xx0xxxxx'	Light depending motion 2 output program enabled
B'xx1xxxxx'	Light depending motion 2 output program disabled
B'x0xxxxxx'	Absence output program enabled
B'x1xxxxxx'	Absence output program disabled

DATABYTE7 = alarm & program selection

Contents	Selected programl
B'xxxxxx00'	None
B'xxxxxx01'	Summer
B'xxxxxx10'	Winter
B'xxxxxx11'	Holiday
B'xxxxx0xx'	Alarm 1 off
B'xxxxx1xx'	Alarm 1 on
B'xxxx0xxx'	Local alarm 1
B'xxxx1xxx'	Global alarm 1
B'xxx0xxxx'	Alarm 2 off
B'xxx1xxxx'	Alarm 2 on
B'xx0xxxxx'	Local alarm 2
B'xx1xxxxx'	Global alarm 2
B'x0xxxxxx'	Sunrise disabled
B'x1xxxxxx'	Sunrise enabled
B'0xxxxxxx'	Sunset disabled
B'1xxxxxxx'	Sunset enabled

DATABYTE8 = light value auto send interval time

(Valid range: 10...255s)

(5...9 = auto send on light value change with min interval 5...9s)

(<5 = auto send disabled)

Transmit: Bus error counter status

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 4 databytes to send

DATABYTE1 = COMMAND_BUSERROR COUNTER STATUS (H'DA')

DATABYTE2 = Transmit error counter

DATABYTE3 = Receive error counter

DATABYTE4 = Bus off counter

Transmits the memory data:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 4 databytes to send

DATABYTE1 = COMMAND_MEMORY_DATA (H'FE')

DATABYTE2 = High memory address

DATABYTE3 = LOW memory address

DATABYTE4 = memory data

Remark: address range: H'0000' to H'01FF'

Transmits memory data block (4 bytes):

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 7 databytes to send

DATABYTE1 = COMMAND_MEMORY_DATA_BLOCK (H'CC')

DATABYTE2 = High start address of memory block

DATABYTE3 = LOW start address of memory block

DATABYTE4 = memory data1

DATABYTE5 = memory data2

DATABYTE6 = memory data3

DATABYTE7 = memory data4

Remark: address range: H'0000' to H'01FC'

Transmit: Clears LEDs on a linked push button module:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Address of the linked push button module for clearing LEDs

RTR = 0

DLC3...DLC0 = 2 databytes to send

DATABYTE1 = COMMAND_CLEAR_LED (H'F5')

DATABYTE2 = LED bit numbers (1 = clear LED)

Transmit: Sets LEDs on a linked push button module:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Address of the linked push button module for setting LEDs on

RTR = 0

DLC3...DLC0 = 2 databytes to send

DATABYTE1 = COMMAND_SET_LED (H'F6')

DATABYTE2 = LED bit numbers (1 = set LED)

Transmit: Blinks LEDs slowly on a linked push button module:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Address of the linked push button module for slowly blinking LEDs

RTR = 0

DLC3...DLC0 = 2 databytes to send

DATABYTE1 = COMMAND SLOW BLINKING LED (H'F7')

DATABYTE2 = LED bit numbers (1 = slow blink LED)

'Linked push button status' received:

 $SID\bar{1}0$ -SID9 = 00 (highest priority)

SID8...SID1 = Address of the linked push button module

RTR = 0

DLC3...DLC0 = 4 databytes received

DATABYTE1 = COMMAND PUSH BUTTON STATUS (H'00')

DATABYTE2 = Linked push buttons just pressed (1 = just pressed)

DATABYTE3 = Linked push buttons just released (1 = just released)

DATABYTE4 = linked push buttons long pressed (1 = longer than 0.85s pressed)

'Real time clock status request' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 1 databyte to send

DATABYTE1 = COMMAND REALTIME CLOCK STATUS REQUEST (H'D7')

'Set real time clock' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = H'00'

RTR = 0

DLC3...DLC0 = 4 databytes to send

DATABYTE1 = COMMAND SET REALTIME CLOCK (H'D8')

DATABYTE2 = Day of week

Contents day of week'	Description
H'00'	Monday
H'01'	Tuesday
H'02'	Wednesday
H'03'	Thursday
H'04'	Friday
H'05'	Saterday
H'06'	Sunday

DATABYTE3 = Hours (0...23)

DATABYTE4 = Minutes (0...59)

'Set date' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = H'00'

RTR = 0

DLC3...DLC0 = 5 databytes to send

DATABYTE1 = COMMAND SET REALTIME DATE (H'B7')

DATABYTE2 = Day (1...31)

DATABYTE3 = Month (1...12)

DATABYTE4 = High byte of Year

DATABYTE5 = Low byte of Year

'Set daylight savings' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = H'00'

RTR = 0

DLC3...DLC0 = 2 databytes to send

DATABYTE1 = COMMAND_SET_DAYLIGHT SAVING (H'AF')

DATABYTE2 = 0 =disabled / 1 = enabled

'Enable/disable global sunrise/sunset related actions' command received:

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SID10-SID9 = 11 (lowest priority)
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SID8...SID1 = H'00'

RTR = 0

DLC3...DLC0 = 3 databytes to send

DATABYTE1 = COMMAND_ENA_DIS_SUNRISE_SUNSET (H'AE')

DATABYTE2 = Channel (FF)

DATABYTE3 = enable/disable flags

Contents	Description
B'xxxxxxx0'	Disable sunrise related actions
B'xxxxxxx1'	Enable sunrise related actions
B'xxxxxx0x'	Disable sunset related actions
B'xxxxxx1x'	Enable sunset related actions

'Enable/disable local sunrise/sunset related actions' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 3 databytes to send

DATABYTE1 = COMMAND_ENA_DIS_SUNRISE_SUNSET (H'AE')

DATABYTE2 = Channel (FF)

DATABYTE3 = enable/disable flags

Contents	Description
B'xxxxxxx0'	Disable sunrise related actions
B'xxxxxxx1'	Enable sunrise related actions
B'xxxxxx0x'	Disable sunset related actions
B'xxxxxx1x'	Enable sunset related actions

'Set global clock alarm' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = H'00'

RTR = 0

DLC3...DLC0 = 7 databytes to send

DATABYTE1 = COMMAND SET ALARM CLOCK (H'C3')

DATABYTE2 = Alarm number (1 or 2)

DATABYTE3 = Wake up hour (0...23)

DATABYTE4 = Wake up minute (0...59)

DATABYTE5 = Go to bed hour (0...23)

DATABYTE6 = Go to bed minute (0...59)

DATABYTE7 = Clock alarm enable flag (0 = disabled / 1 = enabled)

'Set local clock alarm' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 7 databytes to send

DATABYTE1 = COMMAND_SET_ALARM_CLOCK (H'C3')

DATABYTE2 = Alarm number (1 or 2)

DATABYTE3 = Wake up hour (0...23)

DATABYTE4 = Wake up minute (0...59)

DATABYTE5 = Go to bed hour (0...23)

DATABYTE6 = Go to bed minute (0...59)

DATABYTE7 = Clock alarm enable flag (0 = disabled / 1 = enabled)

'Module type request' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 1

DLC3...DLC0 = 0 databytes received

'Module status request' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND_MODULE_STATUS_REQUEST (H'FA')

DATABYTE2 = don't care

'Light value request' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes to send

DATABYTE1 = COMMAND_LIGHT_VALUE_REQUEST (H'AA')

DATABYTE2 = Auto send interval time into seconds

(valid range: 10...255s)

(5...9 = auto send on change)

(1...4 = auto send disabled)

(0 = no change on auto send interval time)

'Set or Clear test mode' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND_SET_CLR_LEARN_MODE (H'B5')

DATABYTE2 = Operating mode

Contents	Operating mode
B'00000000'	Normal
B'00000001'	Test mode

Remark:

After changing the operating mode, the module sends his status.

There is a timeout of 30 minutes for the test mode.

'Clear channel LED' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND_CLEAR_LED (H'F5')

DATABYTE2 = LEDs to clear (a one clears the corresponding LED of channel 1 to 8)

'Set channel LED' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND SET LED (H'F6')

DATABYTE2 = LEDs to set (a one sets the corresponding LED of channel 1 to 8)

'Slow blink channel LED' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND_SLOW_BLINK_LED (H'F7')

DATABYTE2 = LEDs to blink slow (a one blinks slow the corresponding LED of channel 1 to 8)

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'Fast blink channel LED' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 2 databytes received
   DATABYTE1 = COMMAND_FAST_BLINK_LED (H'F8')
   DATABYTE2 = LEDs to blink fast (a one blinks fast the corresponding LED of channel 1 to 8)
'Very fast blink channel LED' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 2 databytes received
   DATABYTE1 = COMMAND VERY FAST BLINK LED (H'F9')
   DATABYTE2 = LEDs to blink very fast (a one blinks very fast the corresponding LED of channel 1 to 8)
'Update channel LEDs' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 4 databytes received
   DATABYTE1 = COMMAND UPDATE LED STATUS (H'F4')
   DATABYTE2 = LEDs to set (a one sets the corresponding LED of channel 1 to 8)
   DATABYTE3 = LEDs to blink slow (a one blinks slow the corresponding LED of channel 1 to 8)
   DATABYTE4 = LEDs to blink fast (a one blinks very fast the corresponding LED of channel 1 to 8)
   The 'LEDs to set' status overrides the blinking modes.
   Very fast blinking if slow & fast blinking are set.
'Read data from memory' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 3 databytes received
   DATABYTE1 = COMMAND READ DATA FROM MEMORY (H'FD')
   DATABYTE2 = High memory address
   DATABYTE3 = LOW memory address
   Remark: address range: H'0000' to H'01FF'
'Memory dump request' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 1 databytes received
   DATABYTE1 = COMMAND_MEMORY_DUMP_REQUEST (H'CB')
'Read data block from memory' command received:
   SID10-SID9 = 11 (lowest priority)
   SID8...SID1 = Module address
   RTR = 0
   DLC3...DLC0 = 3 databytes received
   DATABYTE1 = COMMAND READ MEMORY BLOCK (H'C9')
   DATABYTE2 = High memory address
   DATABYTE3 = LOW memory address
   Remark: address range: H'0000' to H'01FC'
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'Write data to memory' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 4 databytes received

DATABYTE1 = COMMAND_WRITE_DATA_TO_MEMORY (H'FC')

DATABYTE2 = High memory address

DATABYTE3 = LOW memory address (H'00'...H'FF')

DATABYTE4 = memory data to write

Remark:

Wait at least 10ms for sending a next command on the velbus.

Address range: H'0000' to H'01FF'

'Write memory block' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Address of the module

RTR = 0

DLC3...DLC0 = 7 databytes received

DATABYTE1 = COMMAND_WRITE_MEMORY_BLOCK (H'CA')

 $DATABYTE2 = High\ memory\ address$

DATABYTE3 = LOW memory address

DATABYTE4 = memory databyte1 to write

DATABYTE5 = memory databyte2 to write DATABYTE6 = memory databyte3 to write

DATABYTE7 = memory databyte4 to write

Remark:

Wait for 'memory data block' feedback before sending a next command on the velbus.

Address range: H'0000' to H'01FC'

'Bus error counter status request' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 1 databytes to send

DATABYTE1 = COMMAND_BUS_ERROR_CONTER_STATUS_REQUEST (H'D9')

'Unlock channel' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND CANCEL FORCED OFF (H'13')

DATABYTE2 = Channel bit

Contents	Channel
B'00000001'	Dark output
B'00000010'	Light output
B'00000100'	Motion 1 output
B'00001000'	Light depending motion 1 output
B'00010000'	Motion 2 output
B'00100000'	Light depending motion 2 output
B'01000000'	Absence output

'Lock channel' command received:

SID10-SID9 = 00 (highest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 5 databytes received

DATABYTE1 = COMMAND_FORCED_OFF (H'12')

DATABYTE2 = Channel bit

Contents	Dimmer channel
B'00000001'	Dark output
B'00000010'	Light output
B'00000100'	Motion 1 output
B'00001000'	Light depending motion 1 output
B'00010000'	Motion 2 output
B'00100000'	Light depending motion 2 output
B'01000000'	Absence output

DATABYTE3 = high byte of delay time DATABYTE4 = mid byte of delay time DATABYTE5 = low byte of delay time

Remark:

[DATABYTE3][DATABYTE4][DATABYTE5] contain a 24-bit time in seconds

The command will be skipped when the time parameter contains zero.

When the time parameter contains H'FFFFFF' then the channelwill be permanently locked.

'Enable Channel Program' command received:

SID10-SID9 = 11 (lowest priority) SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received

DATABYTE1 = COMMAND ENABLE PROGRAM (H'B2')

DATABYTE2 = Channel bit

Contents	Channel	
B'00000001'	Dark output	
B'00000010'	Light output	
B'00000100'	Motion 1 output	
B'00001000'	Light depending	g motion 1 output
B'00010000'	Motion 2 output	
B'00100000'	Light depending motion 2 output	
B'01000000'	Absence output	

'Disable Channel Program' command received:

SID10-SID9 = 11 (lowest priority)

SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 5 databytes received

DATABYTE1 = COMMAND DISABLE PROGRAM (H'B1')

DATABYTE2 = channel

Contents		Channel
B'00000001'		Dark output
B'00000010'		Light output
B'00000100'		Motion 1 output
B'00001000'		Light depending motion 1 output
B'00010000'		Motion 2 output
B'00100000'		Light depending motion 2 output
B'01000000'		Absence output

DATABYTE3 = high byte of delay time DATABYTE4 = mid byte of delay time

DATABYTE5 = low byte of delay time

Remark:

[DATABYTE3][DATABYTE4][DATABYTE5] contain a 24-bit time in seconds

The command will be skipped when the time parameter contains zero.

When the time parameter contains H'FFFFFF' then the channel program will be permanently disabled.

'Select Program' command received:SID10-SID9 = 11 (lowest priority) SID8...SID1 = Module address

RTR = 0

DLC3...DLC0 = 2 databytes received DATABYTE1 = COMMAND_SELECT_PROGRAM (H'B3')

DATABYTE2 = Program mode

Contents	Selected programl
0	None
1	Summer
2	Winter
3	Holiday

Memory map version 1:

Address	Contents	Address	Contents
0x0000	Dark value low byte	0x0001	Dark value high byte
0x0002	Light value low byte	0x0003	Light value high byte
0x0004	Light to dark reaction time (default 1min)	0x0005	Dark timer mode = non restartable timer
0x0006	Dark timeout (default momentary)	0x0007	Dark flags (default cycling protect off & external overwrite
			off)
0x0008	Dark to light reaction time (default 1min)	0x0009	Light timer mode = non restartable timer
0x000A	Light timeout (default momentary)	0x000B	Light flags (default cycling protect off & external overwrite
			off)
0x000C	Motion 1 reaction time (default 0s) (range 0, 1, 2, 3s)	0x000D	Motion 1 timer mode = restartable timer
0x000E	Motion 1 timeout (default 2min)	0x000F	Motion 1 flags (default cycling protect off & external
0x0010	Light depending motion 1 reaction time (default 0s) (range 0, 1, 2, 3s)	0x0011	overwrite off) Light depending motion 1 timer mode = restartable timer
0x0012	Light depending motion 1 timeout (default 2min)	0x0013	Light depending motion 1 flags (default cycling protect = on & external overwrite off)
0x0014	Motion 2 reaction time (default 0s) (range 0, 1, 2, 3s)	0x0015	Motion 2 timer mode = restartable timer
0x0014	Motion 2 timeout (default 2min)	0x0013	Motion 2 flags (default cycling protect off & external
ONOUTO	Trotton 2 timeout (detaut 2mm)	ONOUT	overwrite off)
0x0018	Light depending motion 2 reaction time (default 0s) (range 0, 1, 2, 3s)	0x0019	Light depending motion 2 timer mode = restartable timer
0x001A	Light depending motion 2 timeout (default 2min)	0x001B	Light depending motion 2 flags (default cycling protect = on & external overwrite off)
0x001C	Light depending motion 1 dark reaction time = 5 sec	0x001D	Light depending motion 1 dark timer mode = non restartable timer
0x001E	Light depending motion 1 dark timeout = momentary	0x001F	Light depending motion 1 dark flags = cycling protect off & external overwrite off
0x0020	Light depending motion 2 dark reaction time = 5 sec	0x0021	Light depending motion 2 dark timer mode = non restartable timer
0x0022	Light depending motion 2 dark timeout = momentary	0x0023	Light depending motion 2 dark flags = cycling protect off & external overwrite off
0x0024	Motion sensitivity (default medium)	0x0025	Not used
0x0026	Light depending motion 1 dark value low byte	0x0027	Light depending motion 1 dark value high byte
0x0028	Light depending motion 1 light value low byte (0.98*motion 1 dark value)	0x0029	Light depending motion 1 light value high byte
0x002A	Light depending motion 2 dark value low byte	0x002B	Light depending motion 2 dark value high byte
0x002C	Light depending motion 2 light value low byte (0.98*motion 2 dark value)	0x002D	Light depending motion 2 light value high byte
0x002E	Absence timeout	0x002F	Absence output mode
0x0030	Not used	0x0031	Alarm clock configuration
0x0032	Wake up 1 hour (023)	0x0033	Wake up 1 minutes (059)
0x0034	Go to bed 1 hour (023)	0x0035	Go to bed 1 minutes (059)
0x0036	Wake up 2 hour (023)	0x0037	Wake up 2 minutes (059)
0x0038	Go to bed 2 hour (023)	0x0039	Go to bed 2 minutes (059)
0x003A	Sunrise hour at 21 December (023)	0x003B	Sunrise minutes at 21 December (059)
0x003C 0x003E	Sunrise 21 January – sunrise 5 January (-128'127') Sunrise 21 February – sunrise 5 February (-128'127')	0x003D 0x003F	Sunrise 5 February – sunrise 21 January (-128'127') Sunrise 5 March – sunrise 21 February (-128'127')
0x003E	Sunrise 21 March – sunrise 5 March (-128'127')	0x003F	Sunrise 5 April – sunrise 21 March (-128'127')
0x0040	Sunrise 21 April – sunrise 5 April (-128'127')	0x0041	Sunrise 5 May – sunrise 21 March (-128'127')
0x0042 0x0044	Sunrise 21 May – sunrise 5 May (-128'127')	0x0045	Sunrise 5 June – sunrise 21 May (-128'127')
0x0044	Sunrise 21 June – sunrise 5 June (-128'127')	0x0043	Sunrise 5 July – sunrise 21 June (-128'127')
0x0048	Sunrise 21 July – sunrise 5 July (-128'127')	0x0047	Sunrise 5 August – sunrise 21 July (-128'127')
0x004A	Sunrise 21 August – sunrise 5 August (-128'127')	0x004B	Sunrise 5 September – sunrise 21 August (-128'127')
0x004C	Sunrise 21 September – sunrise 5 September (-128127')	0x004D	Sunrise 5 October – sunrise 21 September (-128'127')
0x004E	Sunrise 21 October – sunrise 5 October (-128'127')	0x004F	Sunrise 5 November – sunrise 21 October (-128'127')
0x0050	Sunrise 21 November – sunrise 5 November (-128'127')	0x0051	Sunrise 5 December – sunrise 21 November (-128'127')
0x0052	Sunrise 21 December – sunrise 5 December (-128'127')	0x0053	Sunrise 5 January – sunrise 21 December (-128'127')
0x0054	Sunset hour at 21 December (023)	0x0055	Sunset minutes at 21 December (059)
0x0056	Sunset 21 January – sunrise 5 January (-128'127')	0x0057	Sunset 5 February – sunrise 21 January (-128'127')
0x0058	Sunset 21 February – sunrise 5 February (-128'127')	0x0059	Sunset 5 March – sunrise 21 February (-128'127')
0x005A	Sunset 21 March – sunrise 5 March (-128'127')	0x005B	Sunset 5 April – sunrise 21 March (-128'127')
0x005C	Sunset 21 April – sunrise 5 April (-128'127')	0x005D	Sunset 5 May – sunrise 21 April (-128'127')
0x005E	Sunset 21 May – sunrise 5 May (-128'127')	0x005F	Sunset 5 June – sunrise 21 May (-128'127')
0x0060	Sunset 21 June – sunrise 5 June (-128'127')	0x0061	Sunset 5 July – sunrise 21 June (-128'127')

0x0062 Sunset 21 July – sunrise 5 July (-128'127') 0x0063 Sunset 5 August – sunrise 21 July (-128'127') 0x0064 Sunset 21 August – sunrise 5 August (-128'127') 0x0065 Sunset 5 September – sunrise 21 August (-128'127') 0x0066 Sunset 21 September – sunrise 5 September (-128'127') 0x0067 Sunset 5 October – sunrise 21 September (-128'127') 0x0068 Sunset 21 November – sunrise 5 October (-128'127') 0x0069 Sunset 5 November – sunrise 21 October (-128'127') 0x006C Sunset 21 December – sunrise 5 November (-128'127') 0x006B Sunset 5 December – sunrise 21 November (-128'127') 0x006E Not used 0x006F Not used 0x00AA Not used 0x00AB 0x00AE Group id low byte 0x00AB 0x00AB Module terminator 0x00AB Module name character 1 0x00F0 Module name character 63 0x00F1 Module name character 64 0x00F2 Not used 0x00F3 Not used 0x00F4 <th></th> <th></th> <th></th> <th></th>				
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	0x006C	Sunset 21 December – sunrise 5 December (-128'127')	0x006D	Sunset 5 January – sunrise 21 December (-128'127')
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	0x00AE	Group id low byte	0x00AF	Group id high byte
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0x00FA Current year high byte 0x00FB Current year low byte 0x00FC Zone address 0x00FD Module Address	0x00F6	Program disable/enable flags	0x00F7	Locked/unlocked flags
0x00FC Zone address 0x00FD Module Address	0x00F8	Current day (131)	0x00F9	Current month (112)
	0x00FA	Current year high byte	0x00FB	Current year low byte
0v00EE Social number high	0x00FC	Zone address	0x00FD	Module Address
OXOUTE Serial number night OXOUTE Serial number low	0x00FE	Serial number high	0x00FF	Serial number low

Remark:

Unused locations contain H'FF'

Do not overwrite the following address location:

H'00F3' Auto send interval of temperature for VMBPIRO

H'00F4' Auto send interval of light value

H'00F5' program selection

H'00F6' program enable/disable flags H'00F7' locked/unlocked flags H'00F8' current day of month

H'00F9' current month
H'00FA' & H'00FB' current year
H'00FC' zone address
H'00FD' module address
H'00FE' & H'00FF' module serial number

Reaction time (light to dark, dark to light, motion & light depending motion)

contents	Reaction time	
0	0s (factory default for motion & light depending motion)	
1	1s	
2	2s	
•••		
59	59s	
60	1min (factory default for light to dark & dark to light)	
61	1min1s	
119	1min59s	
120	2min	
121	2min15s	
•••		
131	4min45s	
132	5min	
133	5min30s	
181	29min30s	
182	30min	
183	31min	
211	59min	
212	1h	

Timer mode (dark, light, motion & light depending motion)

Contents	Timer mode
H'00'	non restartable timer (for dark & light)
H'FF'	restartable timer (for motion & light depending motion)

Timeout (light to dark, dark to light, motion & light depending motion)

Contents	Timeout
0	0 = momentary (factory default for dark, light & motion)
1	1s
2	2s
•••	
119	1min59s
120	2min (factory default for light depending motion)
121	2min15s
•••	
131	4min45s
132	5min
133	5min30s
•••	
181	29min30s
182	30min
183	31min
211	59min
212	1h
213	1h15min
227	4h45min
228	5h
229	5h30min
•••	
237	9h30min
238	10h

Absence timeout

Time parameter	Timeout
60	1min
61	1min1s
62	1min2s
•••	
119	1min59s
120	2min
121	2min15s
•••	
131	4min45s
132	5min
133	5min30s
•••	
152	15min (default)
•••	
181	29min30s
182	30min
183	31min
211	59min
212	1h
213	1h15min
•••	
227	4h45min
228	5h
229	5h30min
•••	

237	9h30min
238	10h
239	11h
251	23h
252	1d

Absence output mode

Contents	Absence output mode	
0x00	Momentary (default)	
0xFF	1 second pulse	

Dark flags

Contents	Timer mode
B'xxxxxxx0'	Cycling protection disabled (default)
B'xxxxxxx1'	Cycling protection enabled
B'xxxxxx0x'	External overwrite disabled (default)
B'xxxxxx1x'	External overwrite enabled

Light flags

5730	
Contents	Timer mode
B'xxxxxxx0'	Cycling protection disabled (default)
B'xxxxxxx1'	Cycling protection enabled
B'xxxxxx0x'	External overwrite disabled (default)
B'xxxxxx1x'	External overwrite enabled

Motion flags

Contents	Timer mode
B'xxxxxxx0'	Cycling protection disabled (default)
B'xxxxxxx1'	Cycling protection enabled
B'xxxxxx0x'	External overwrite disabled (default)
B'xxxxxx1x'	External overwrite enabled

Light depending motion flags

shi depending monon juags		
Contents	Timer mode	
B'xxxxxxx0'	Cycling protection disabled (default)	
B'xxxxxxx1'	Cycling protection enabled	
B'xxxxxx0x'	External overwrite disabled (default)	
B'xxxxxx1x'	External overwrite enabled	

Motion sensitivity

Contents	Sensitivity
0x00	Low sensitivity
0x01	Medium sensitivity (default)
0x02	High sensitivity

Alarm clock configuration

Contents	Channel locked/unlocked
B'xxxxxxx0'	Alarm 1 disabled
B'xxxxxxx1'	Alarm 1 enabled
B'0xxxxx0x'	Local alarm 1
B'lxxxxxlx'	Global alarm 1
B'xxxxx0xx'	Alarm 2 disabled
B'xxxxx1xx'	Alarm 2 enabled
B'xxxx0xxx'	Local alarm 2
B'xxxx1xxx'	Global alarm 2
B'xxx0xxxx'	Sunrise disabled
B'xxx1xxxx'	Sunrise enabled
B'xx0xxxxx'	Sunset disabled
B'xx1xxxxx'	Sunset enabled
B'x0xxxxxx'	Daylight savings disabled
B'x1xxxxxx'	Daylight savings enabled

Program selection

Contents	Selected program	
0	None	
1	Group 1 (eg. Summer programs)	
2	Group 2 (eg. Winter programs)	
3	Group 3 (eg. Holiday programs)	

Channel program disabled

Contents	Channel program enabled/disabled	
B'xxxxxxx0'	Dark program enabled	
B'xxxxxxx1'	Dark program disabled	
B'xxxxxx0x'	Light program enabled	
B'xxxxxx1x'	Light program disabled	
B'xxxxx0xx'	Motion 1 program enabled	
B'xxxxx1xx'	Motion 1 program disabled	
B'xxxx0xxx'	Light depending motion 1 program enabled	
B'xxxx1xxx'	Light depending motion 1 program disabled	
B'xxx0xxxx'	Motion 2 program enabled	
B'xxx1xxxx'	Motion 2 program disabled	
B'xx0xxxxx'	Light depending motion 2 program enabled	
B'xx1xxxxx'	Light depending motion 2 program disabled	

Channel locked

Contents	Channel locked/unlocked	
B'xxxxxxx0'	Dark output unlocked	
B'xxxxxxx1'	Dark output locked	
B'xxxxxx0x'	Light output unlocked	
B'xxxxxx1x'	Light output locked	
B'xxxxx0xx'	Motion 1 output unlocked	
B'xxxxx1xx'	Motion 1 output locked	
B'xxxx0xxx'	Light depending motion 1 output unlocked	
B'xxxx1xxx'	Light depending motion 1 output locked	
B'xxx0xxxx'	Motion 2 output unlocked	
B'xxx1xxxx'	Motion 2 output locked	
B'xx0xxxxx'	Light depending motion 2 output unlocked	
B'xx1xxxxx'	Light depending motion 2 output locked	

Address	Contents	Address	Contents
H'0100'	Linked Push button 1 module address	H'0101'	Linked Push button 1 bit number
H'0102'	Linked Push button 1 action	H'0103'	Linked Push button 1 time parameter
H'0104'	Linked Push button 1 channel parameter		
•••			
H'0178'	Linked Push button 25 module address	H'0179'	Linked Push button 25 bit number
H'017A'	Linked Push button 25 action	H'017B'	Linked Push button 25 time parameter
H'017C'	Linked Push button 25 channel parameter	H'017D'	Not used
H'017E'	Not used	H'017F'	Not used

Action

Action number	Action	Time parameter	Bit number
0	Lock channel at closed switch	-	Channel bit
1	Lock channel at opened switch	-	Channel bit
2	Lock channel	Timeout	Channel bit
3	Lock/unlock channel	Timeout	Channel bit
4	Unlock channel	-	Channel bit
5	Disable channel program at closed switch	-	Channel bit
6	Disable channel program at opened switch	-	Channel bit
7	Disable channel program channel	Timeout	Channel bit
8	Disable/enable channel program	Timeout	Channel bit
9	Enable channel program	-	Channel bit
10	Select no programs	-	-
11	Select program group 1 (e.g. summer programs)	-	-
12	Select/deselect program group 1 (e.g. summer programs)	-	-
13	Select program group 2 (e.g. winter programs)	-	-
14	Select/deselect program group 2 (e.g. winter programs)	-	-
15	Select program group 3 (e.g. holiday programs)	-	-
16	Select/deselect program group 3 (e.g. holiday programs)	-	-
17	Enable Alarm 1 at closed switch	-	-
18	Enable Alarm 1 at open switch	-	-
19	Disable Alarm 1 at closed switch	-	-
20	Disable Alarm 1 at open switch	-	-
21	Enable Alarm 1	-	-
22	Enable/Disable Alarm 1	-	-
23	Disable Alarm 1	-	-
24	Enable Alarm 2 at closed switch	-	-
25	Enable Alarm 2 at open switch	-	-
26	Disable Alarm 2 at closed switch	-	-
27	Disable Alarm 2 at open switch	-	-
28	Enable Alarm 2	-	-
29	Enable/Disable Alarm 2	-	-
30	Disable Alarm 2	-	-
31	Enable Sunrise at closed switch	-	-
32	Enable Sunrise at open switch	-	-
33	Disable Sunrise at closed switch	-	-
34	Disable Sunrise at open switch	-	-
35	Enable Sunrise	-	-
36	Enable/Disable Sunrise	-	-
37	Disable Sunrise	-	-
38	Enable Sunset at closed switch	-	-
39	Enable Sunset at open switch	-	-
40	Disable Sunset at closed switch	-	-
41	Disable Sunset at open switch	-	-
42	Enable Sunset	-	-
43	Enable/Disable Sunset	-	-
44	Disable Sunset	-	-
45	Reset absence timer at closed switch	-	-

Bit Number

Contents	Bit number	
B'00000001'	Dark output	
B'00000010'	Light output	
B'00000100'	Motion 1 output	
B'00001000'	Light depending motion 1 output	
B'00010000'	Motion 2 output	
B'00100000'	Light depending motion 2 output	
B'01000000'	Absence output	

Time parameter

Time parameter Time parameter	Timeout
0	0s (No timer)
1	1s
2	2s
119	1min59s
120	2min
121	2min15s
131	4min45s
132	5min
133	5min30s
181	29min30s
182	30min
183	31min
211	59min
212	1h
213	1h15min
227	4h45min
228	5h
229	5h30min
237	9h30min
238	10h
239	11h
251	23h
252	1d
253	2d
254	3d
255	infinite

Address	Contents	Address	Contents
H'0180'	Program step 1 byte1	H'0181'	Program step 1 byte2
H'0182'	Program step 1 byte3	H'0183'	Program step 1 byte4
H'0184'	Program step 1 byte5	H'0185'	Program step 1 byte6
H'01F8'	Program step 21 byte 1	H'01F9'	Program step 21 byte2
H'01FA'	Program step 21 byte3	H'01FB'	Program step 21 byte4
H'01FC'	Program step 21 byte5	H'01FD'	Program step 21 byte6
H'01FE'	Not used	H'01FF'	Not used

Contents program byte1	Description
B'000xxxxx'	Disable program step
B'001xxxxx'	Absolute time
B'010xxxxx'	Wake up time 1 + relative time
B'011xxxxx'	Go to bed time 1 + relative time
B'100xxxxx'	Wake up time 2 + relative time
B'101xxxxx'	Go to bed time 2 + relative time
B'110xxxxx'	Sunrise + relative time
B'111xxxxx'	Sunset + relative time
B'xxx01111'	Rel. time = 3h45min
B'xxx00001'	Rel. time = 15min
B'xxx00000'	Rel. time = 0
B'xxx11111'	Rel. time = -15min
B'xxx10000'	Rel. time = -4h

Remark: Wake up, Go to bed, sunrise & sunset time are only allowed for weekly programs

Contents program byte2	Description
B'xxxx0000'	Weekly program
B'xxxx0001'	January
B'xxxx0010'	February
B'xxxx0011'	March
B'xxxx0100'	April
B'xxxx0101'	May
B'xxxx0110'	June
B'xxxx0111'	July
B'xxxx1000'	August
B'xxxx1001'	September
B'xxxx1010'	October
B'xxxx1011'	November
B'xxxx1100'	December
B'xxxx1101'	Monthly program
B'xxxx1110'	Monthly program
B'xxxx1111'	Monthly program

Description
0h
1h
23h
Summer program
Winter program
Holiday program

Contents program byte4	Description
B'xx000000'	Omin
B'xx000001'	1min
B'xx111011'	59min

Contents program byte4	Contents program byte2	Description
B'00xxxxxx'	B'0000xxxx'	Never
B'00xxxxxx'	B'0001xxxx'	Day 1of the month
B'00xxxxxx'	B'0010xxxx'	Day 2of the month
B'01xxxxxx'	B'1111xxxx'	Day 31of the month
B'10xxxxxx'	B'0000xxxx'	Never
B'10xxxxxx'	B'0001xxxx'	Every Monday
B'10xxxxxx'	B'0010xxxx'	Every Tuesday
B'10xxxxxx'	B'0111xxxx'	Every Sunday
B'10xxxxxx'	B'1000xxxx'	Every weekend (sa & su)
B'10xxxxxx'	B'1001xxxx'	Every working day (mofr)
B'10xxxxxx'	B'1010xxxx'	Every day except Sunday
B'10xxxxxx'	B'1011xxxx'	Every day
B'10xxxxxx'	B'1100xxxx'	Never
B'11xxxxxx'	B'1111xxxx'	Never

Contents program byte5	Action
0	Unlock
1	Lock

Contents program byte6	Channel
B'0000001'	Dark output
B'00000010'	Light output
B'00000100'	Motion 1 output
B'00001000'	Light depending motion 1 output
B'00010000'	Motion 2 output
B'00100000'	Light depending motion 2 output
B'01000000'	Absence output