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Description

1. Description

In the outdoor lighting and street lighting sector, it often makes sense to dim the lighting level during night hours in order to save energy. The chronoSTEP 2 function is a tool that makes this easy to do.

The device automatically measures the switch-on and switch-off times of the lighting installation over the past three days. The switch-on and switch-off times are typically the times at which the sun sets and rises. The midpoint of these two reference points is the time referred to as Virtual Midnight. To allow immediate operation, it is possible to send time difference from actual time to midnight by mains programming command (for the first night).

The overall time between switch-ON and switch-OFF is called On-Time.

Overall there are 8 profiles, 5 are predefined by factory and 3 can be programmed by the customer using the mains programming protocol U6Me2. It is also possible to set the balancing and output current, to reset to factory values and to select the intended scene. Programming is also possible via DALI commands and ready2mains.

Overview of chronoSTEP 2 applications

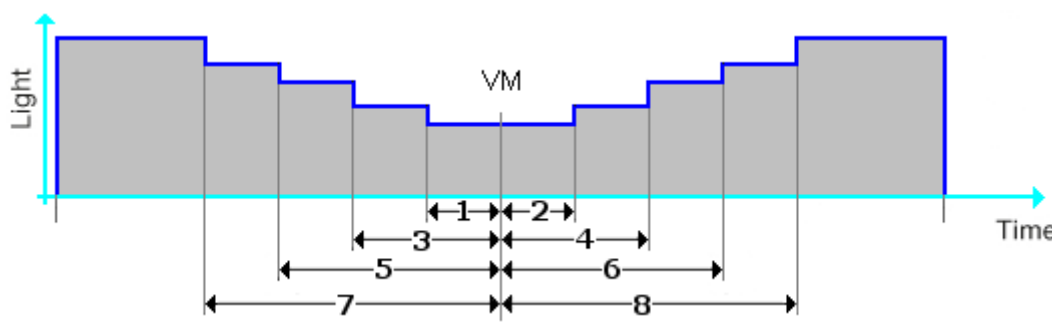
2. Overview of chronoSTEP 2 applications

2.1. Features overview

Configured via DALI (masterCONFIGURATOR in factory) and mains programming (programmer)

| ① Factory | | | |
|--------------------|------------------------|--------------------|---------------------------|
| Feature | ready2mains programmer | masterCONFIGURATOR | manually script generator |
| chronoSTEP | <i>in preperation</i> | available | available |
| CLO | <i>in preperation</i> | available | available |
| ITG | <i>in preperation</i> | available | <i>in preperation</i> |
| ② Street - pole | | | |
| Feature | ready2mains programmer | masterCONFIGURATOR | manually script generator |
| chronoSTEP | <i>in preperation</i> | available | available |
| CLO | <i>in preperation</i> | available | available |
| ITG | <i>in preperation</i> | available | <i>in preperation</i> |
| ③ Street - cabinet | | | |
| Feature | ready2mains programmer | | |
| chronoSTEP | available | | |
| CLO | <i>in preperation</i> | | |
| ITG | <i>in preperation</i> | | |
| ④ Maintenance | | | |
| Feature | ready2mains programmer | | |
| chronoSTEP | available | | |
| CLO | <i>in preperation</i> | | |
| ITG | <i>in preperation</i> | | |

2.2. Profile overview



Overview of chronoSTEP 2 applications

2.2.1. Default profiles

2.2.1.1. Profile 0

_ Disabled / chronoSTEP is disabled (factory default) and light output is set to 100 %.

2.2.1.2. Profile 1

| | | | | | | | |
|---|-----|-------|-------|---|-----|-------|-------|
| <input checked="" type="checkbox"/> Red. time 1 | 3 h | 0 min | 51 % | <input checked="" type="checkbox"/> Red. time 2 | 5 h | 0 min | 51 % |
| <input checked="" type="checkbox"/> Red. time 3 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 4 | 0 h | 0 min | 100 % |
| <input checked="" type="checkbox"/> Red. time 5 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 6 | 0 h | 0 min | 100 % |
| <input checked="" type="checkbox"/> Red. time 7 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 8 | 0 h | 0 min | 100 % |

2.2.1.3. Profile 2

| | | | | | | | |
|---|-----|-------|-------|---|-----|-------|-------|
| <input checked="" type="checkbox"/> Red. time 1 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 2 | 1 h | 0 min | 70 % |
| <input checked="" type="checkbox"/> Red. time 3 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 4 | 4 h | 0 min | 51 % |
| <input checked="" type="checkbox"/> Red. time 5 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 6 | 6 h | 0 min | 70 % |
| <input checked="" type="checkbox"/> Red. time 7 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 8 | 0 h | 0 min | 100 % |

2.2.1.4. Profile 3

| | | | | | | | |
|---|-----|-------|-------|---|-----|-------|-------|
| <input checked="" type="checkbox"/> Red. time 1 | 1 h | 0 min | 60 % | <input checked="" type="checkbox"/> Red. time 2 | 4 h | 0 min | 40 % |
| <input checked="" type="checkbox"/> Red. time 3 | 2 h | 0 min | 80 % | <input checked="" type="checkbox"/> Red. time 4 | 5 h | 0 min | 70 % |
| <input checked="" type="checkbox"/> Red. time 5 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 6 | 0 h | 0 min | 100 % |
| <input checked="" type="checkbox"/> Red. time 7 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 8 | 0 h | 0 min | 100 % |

2.2.1.5. Profile 4

| | | | | | | | |
|---|-----|-------|------|---|-----|-------|------|
| <input checked="" type="checkbox"/> Red. time 1 | 1 h | 0 min | 30 % | <input checked="" type="checkbox"/> Red. time 2 | 1 h | 0 min | 30 % |
| <input checked="" type="checkbox"/> Red. time 3 | 2 h | 0 min | 51 % | <input checked="" type="checkbox"/> Red. time 4 | 4 h | 0 min | 10 % |
| <input checked="" type="checkbox"/> Red. time 5 | 3 h | 0 min | 70 % | <input checked="" type="checkbox"/> Red. time 6 | 5 h | 0 min | 51 % |
| <input checked="" type="checkbox"/> Red. time 7 | 5 h | 0 min | 80 % | <input checked="" type="checkbox"/> Red. time 8 | 7 h | 0 min | 80 % |

Overview of chronoSTEP 2 applications

2.2.2. User defined profiles

2.2.2.1. Profile 5

| | | | | | | | | | |
|---|-----|-------|-----|---|---|-----|-------|-----|---|
| <input checked="" type="checkbox"/> Red. time 1 | 1 h | 0 min | 60 | % | <input checked="" type="checkbox"/> Red. time 2 | 4 h | 0 min | 40 | % |
| <input checked="" type="checkbox"/> Red. time 3 | 4 h | 0 min | 80 | % | <input checked="" type="checkbox"/> Red. time 4 | 5 h | 0 min | 60 | % |
| <input checked="" type="checkbox"/> Red. time 5 | 0 h | 0 min | 100 | % | <input checked="" type="checkbox"/> Red. time 6 | 6 h | 0 min | 80 | % |
| <input checked="" type="checkbox"/> Red. time 7 | 0 h | 0 min | 100 | % | <input checked="" type="checkbox"/> Red. time 8 | 0 h | 0 min | 100 | % |

2.2.2.2. Profile 6

| | | | | | | | | | |
|---|-----|-------|-----|---|---|-----|-------|-----|---|
| <input checked="" type="checkbox"/> Red. time 1 | 1 h | 0 min | 70 | % | <input checked="" type="checkbox"/> Red. time 2 | 1 h | 0 min | 60 | % |
| <input checked="" type="checkbox"/> Red. time 3 | 3 h | 0 min | 80 | % | <input checked="" type="checkbox"/> Red. time 4 | 4 h | 0 min | 40 | % |
| <input checked="" type="checkbox"/> Red. time 5 | 0 h | 0 min | 100 | % | <input checked="" type="checkbox"/> Red. time 6 | 5 h | 0 min | 80 | % |
| <input checked="" type="checkbox"/> Red. time 7 | 0 h | 0 min | 100 | % | <input checked="" type="checkbox"/> Red. time 8 | 0 h | 0 min | 100 | % |

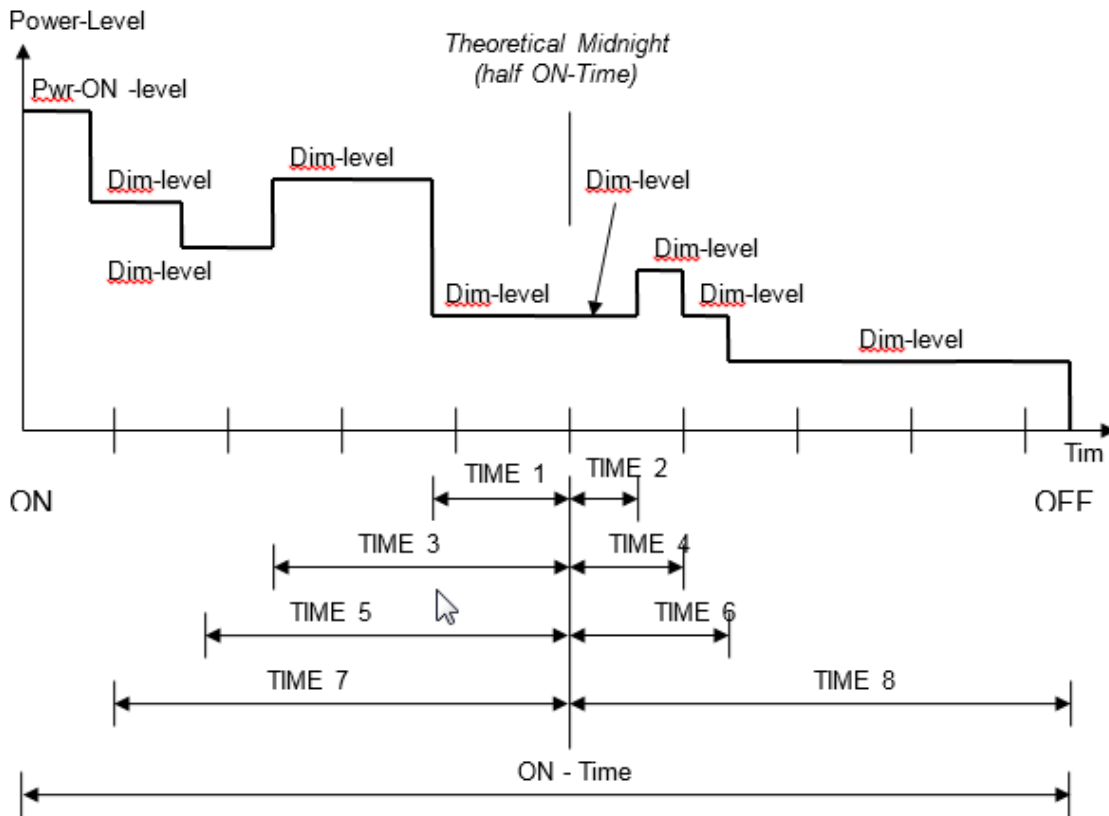
2.2.2.3. Profile 7

| | | | | | | | | | |
|---|-----|-------|-----|---|---|-----|-------|-----|---|
| <input checked="" type="checkbox"/> Red. time 1 | 2 h | 0 min | 51 | % | <input checked="" type="checkbox"/> Red. time 2 | 4 h | 0 min | 51 | % |
| <input checked="" type="checkbox"/> Red. time 3 | 0 h | 0 min | 100 | % | <input checked="" type="checkbox"/> Red. time 4 | 0 h | 0 min | 100 | % |
| <input checked="" type="checkbox"/> Red. time 5 | 0 h | 0 min | 100 | % | <input checked="" type="checkbox"/> Red. time 6 | 0 h | 0 min | 100 | % |
| <input checked="" type="checkbox"/> Red. time 7 | 0 h | 0 min | 100 | % | <input checked="" type="checkbox"/> Red. time 8 | 0 h | 0 min | 100 | % |

Mains programming basics

3. Mains programming basics

3.1. Dimming sequence



3.2. Behaviour on overlapping values

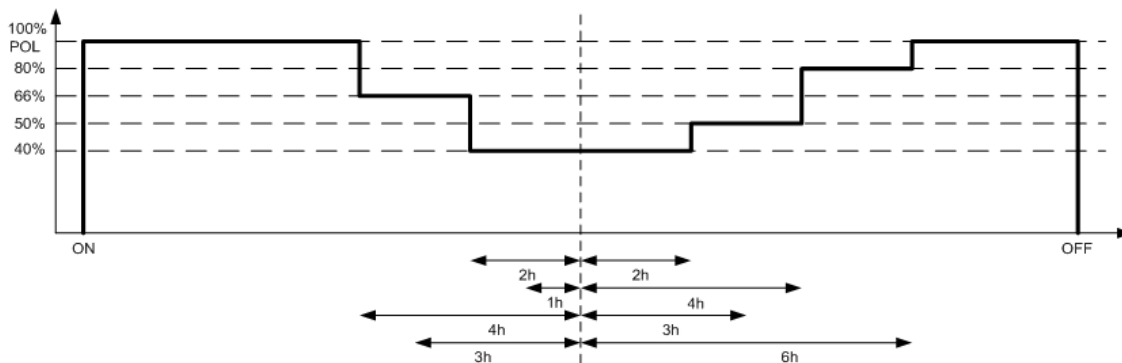
In a sequence where the time values don't increase strictly, these times will be ignored:

| | Time | Level |
|---|------|------------|
| 1 | 2h | 40 % |
| 3 | 1h | is ignored |
| 5 | 4h | 60 % |
| 7 | 3h | Is ignored |
| 2 | 2h | 40 % |

Mains programming basics

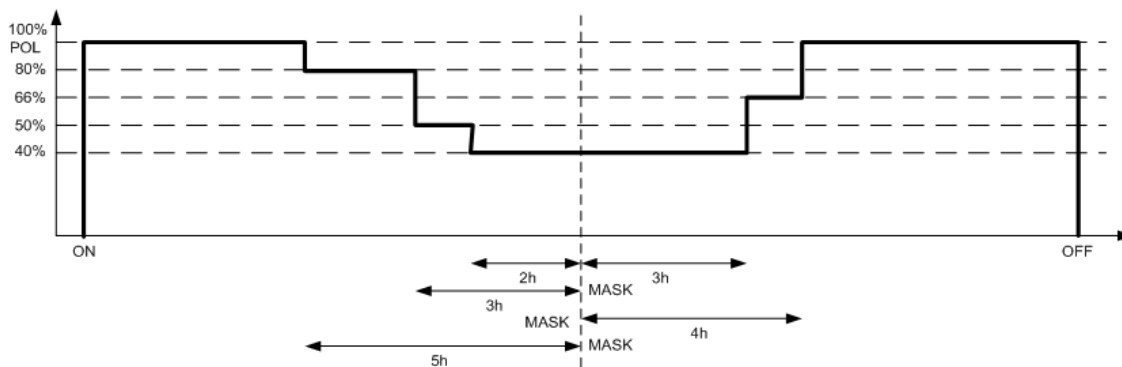
| | | |
|---|----|------------|
| 4 | 4h | 50 % |
| 6 | 3h | Is ignored |
| 8 | 6h | 80 % |

These settings will result in this sequence:



If time values are overlapping each other, the devices should stay on the actual level till the next valid time.

3.3. Behaviour on enclosed MASK time values

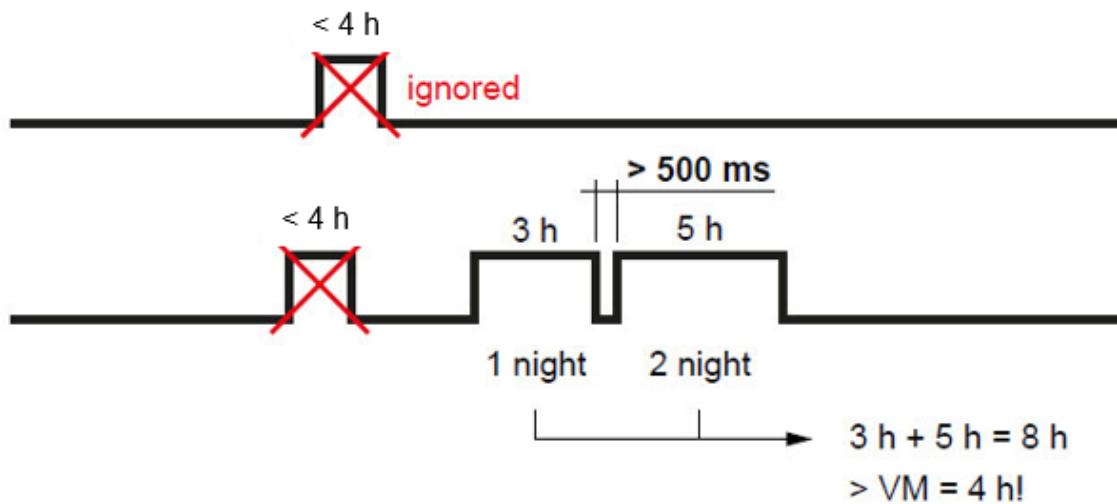
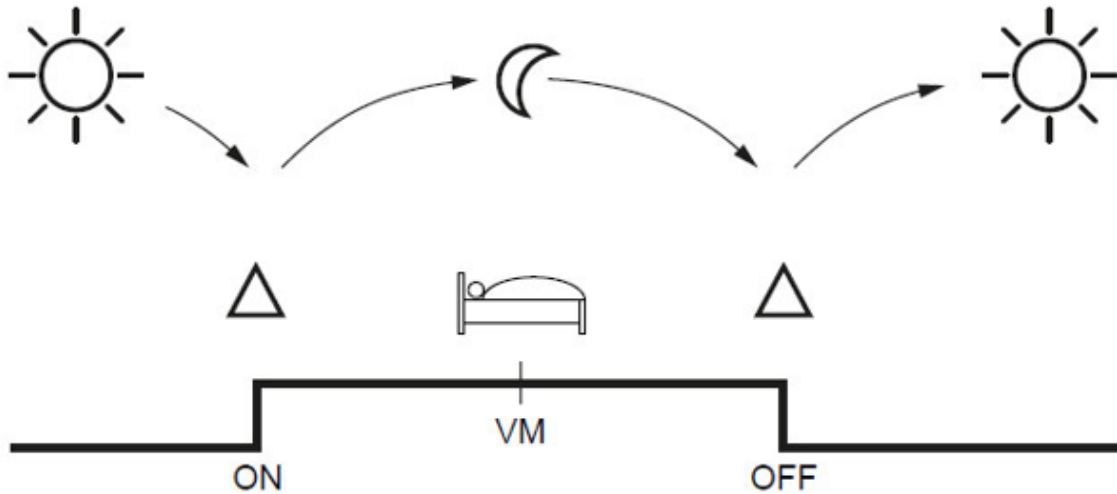


If MASK time values are within a sequence which is followed by a valid time value in the sequence, the device should stay on the old level till the next valid time/value pair is reached.

MASK = 0

Schematic overview of sequences

4. Schematic overview of sequences



Your application:



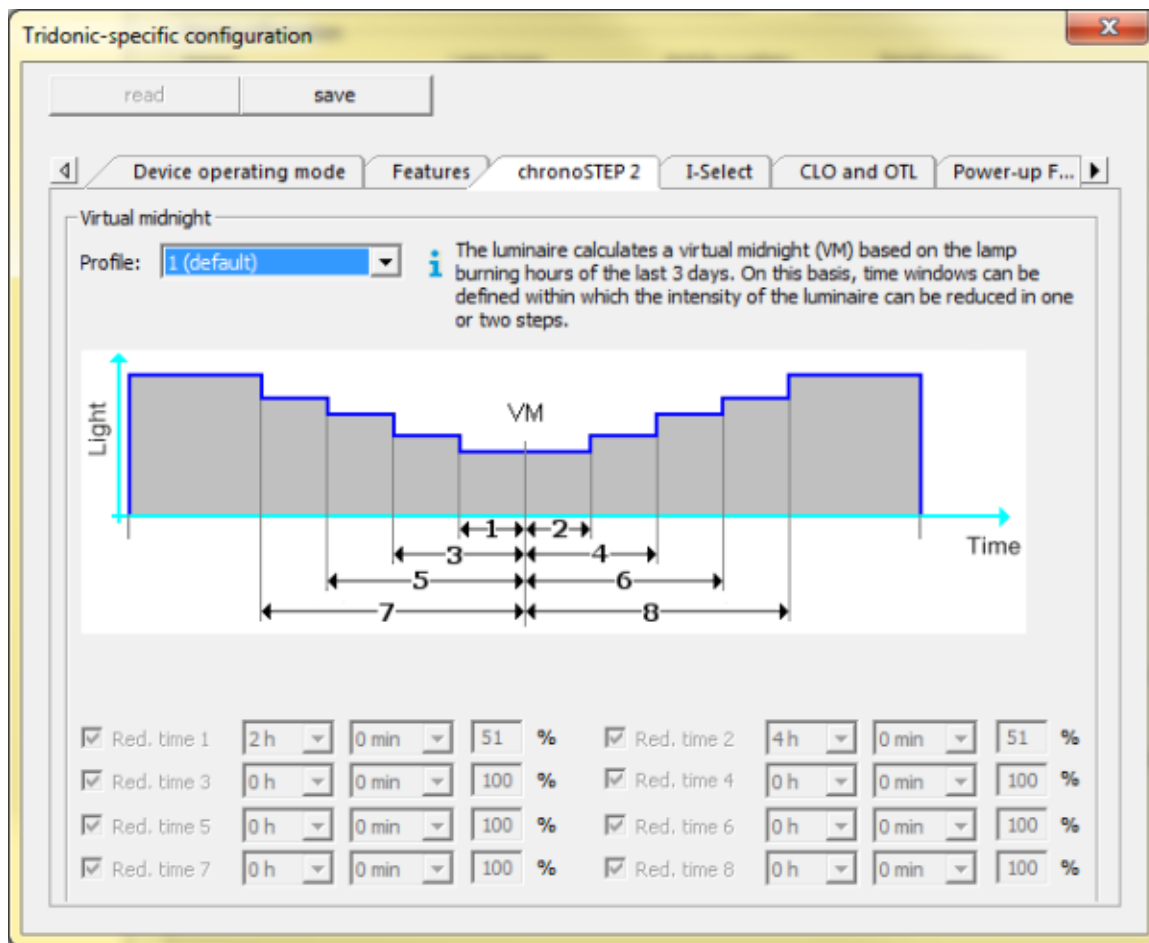
Programming via masterCONFIGURATOR

5. Programming via masterCONFIGURATOR

This chapter describes how to configure the chronoSTEP 2 function.

chronoSTEP 2 is a further development of chronoSTEP and offers more profiles and settings.

For programming the chronoSTEP 2 functionality add the device to the masterCONFIGURATOR (Version > 2.16.0.1407). After successfully addressing the driver you can program it via right mouse button and Tridonic specific parameters.



5.1. chronoSTEP 2 profiles

You can choose between 7 profiles. 4 profiles are pre-defined standard profiles. The other 3 profiles can be adjusted individually. See [Profile overview](#), S. 3 for more information.

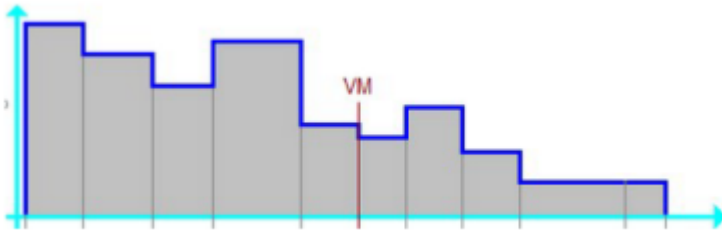
⚠ CAUTION!

If the chronoSTEP 2 and corridorFUNCTION functions are enabled at the same time, this may cause problems. Check the device operating mode (Device operating mode tab) and ensure that corridorFUNCTION is **not** selected!

Programming via masterCONFIGURATOR

5.2. Adjusting the profiles

The profiles can be adjusted by setting the values for 8 different reduction times. The time can be set via two drop-down menus for hours and minutes. The intensity can be entered as a percentage value.



5.3. User defined profiles

Profile 5-7 can be programmed individually.

4 | Device operating mode | Features | chronoSTEP 2 | I-Select | CLO and OTL | Power-up F... ▶

Virtual midnight

Profile: 7 (user-defined) ⓘ The luminaire calculates a virtual midnight (VM) based on the lamp burning hours of the last 3 days. On this basis, time windows can be defined within which the intensity of the luminaire can be reduced in one or two steps.

| | | | | | | | |
|---|-----|-------|-------|---|-----|-------|-------|
| <input checked="" type="checkbox"/> Red. time 1 | 2 h | 0 min | 51 % | <input checked="" type="checkbox"/> Red. time 2 | 4 h | 0 min | 51 % |
| <input checked="" type="checkbox"/> Red. time 3 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 4 | 0 h | 0 min | 100 % |
| <input checked="" type="checkbox"/> Red. time 5 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 6 | 0 h | 0 min | 100 % |
| <input checked="" type="checkbox"/> Red. time 7 | 0 h | 0 min | 100 % | <input checked="" type="checkbox"/> Red. time 8 | 0 h | 0 min | 100 % |

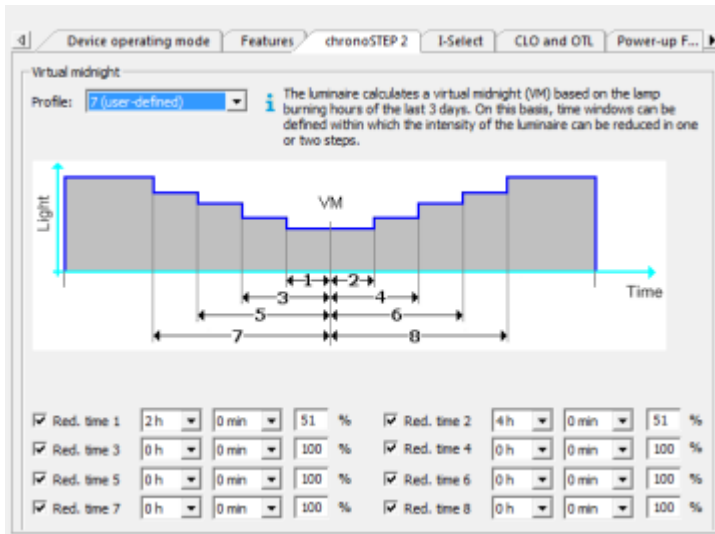
Programming via U6Me2

6. Programming via U6Me2

6.1. Example of programming sequence

The programming must be done via switch 230 V on mains terminals with the following ON/OFF commands.

_ How to configure: (**outdoor mode** / **userprofile 7** / **60 min Time 1** / **50 %** and **90 min Time 2** / **50 %**)



Programming via U6Me2

6.1.1. Single commands

| | | 3-5 s | (delay 5 s) | 3-8 s | (delay 5 s) | 3-8 s | (delay 5 s) | |
|---------------------|--------------|----------------|-------------|------------------|-------------|--------------|-------------|--------------|
| → Start here... | | | | | | | | |
| Mode outdoor | Start | Cmd | | Parameter | | L Ack | | S Ack |
| Mode outdoor | Start | 15 s | (delay 5 s) | 15 s | (delay 5 s) | 25 | (delay 5 s) | 5 |
| Sequence | Start | Profile | | Sequence | | L Ack | | S Ack |
| Sequence | Start | 10 s | (delay 5 s) | 45 s | (delay 5 s) | 20 | (delay 5 s) | 5 |
| Time 1 | Start | Time 1 | | Level 1 | | L Ack | | S Ack |
| Time 1 | Start | 30 s | (delay 5 s) | 60 s | (delay 5 s) | 30 s | (delay 5 s) | 5 |
| Time 2 | Start | Time 2 | | Level 2 | | L Ack | | S Ack |
| Time 2 | Start | 40 s | (delay 5 s) | 60 s | (delay 5 s) | 35 s | (delay 5 s) | 5 |

Programming via U6Me2

6.1.2. Multi commands

| | | 3-5 s | (delay 5 s) | 3-8 s | (delay 5 s) | 3-8 s | (delay 5 s) | |
|---------------------|--------------|----------------|-------------|------------------|-------------|--------------|-------------|--------------|
| → Start here... | | | | | | | | |
| Mode outdoor | | Cmd | | Parameter | | L Ack | | |
| Mode outdoor | Start | 15 s | (delay 5 s) | 15 s | (delay 5 s) | 25 | (delay 5 s) | |
| Sequence | | Profile | | Sequence | | L Ack | | |
| Sequence | | 10 s | (delay 5 s) | 45 s | (delay 5 s) | 20 | (delay 5 s) | |
| Time 1 | | Time 1 | | Level 1 | | L Ack | | |
| Time 1 | | 30 s | (delay 5 s) | 60 s | (delay 5 s) | 30 s | (delay 5 s) | |
| Time 2 | | Time 2 | | Level 2 | | L Ack | | S Ack |
| Time 2 | | 40 s | (delay 5 s) | 60 s | (delay 5 s) | 35 s | (delay 5 s) | 5 |

Programming via U6Me2

6.2. Mode outdoor

Mode outdoor – set to operating mode "134" which is outdoor.

| Internal commands | Remarks | CMD | CMD time | Parameter | Parameter time |
|---------------------|--|-----|----------|-----------|----------------|
| Factory reset | Reset all chronostep2 parameters to default | 0 | 10 s | 0 | 10 s |
| Change mode | Changes the operating mode of the gear between automatic and specific outdoor mode | 1 | 15 s | Mode | 10 - 45 s |
| Power on level | | 2 | 20 s | Level | 10 - 110 s |
| Time until midnight | | 3 | 25 s | Time | 10 - 485 s |
| CH2 enable | Preliminary has to be checked before implementation | 4 | 30 s | 0 | 10 s |
| CH2 disable | Preliminary has to be checked before implementation | 5 | 35 s | 0 | 10 s |

6.3. Sequence

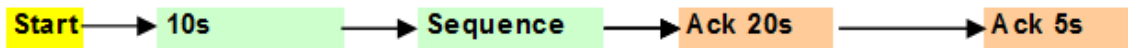
Programming times for different sequences are defined as following:

| Sequence | ON per. |
|----------|---------|
| 0 | 10 s |
| 1 | 15 s |
| 2 | 20 s |
| 3 | 25 s |
| 4 | 30 s |
| 5 | 35 s |

Programming via U6Me2

| | |
|---|------|
| 6 | 40 s |
| 7 | 45 s |

Table 1 Sequence selection via U6me2



6.4. Time table

Eight time intervals and eight corresponding dimming/light levels can be defined for each "var" sequence.

- _ Time 1 defines how many hours before Virtual Midnight the lighting is dimmed to the value of level 1
- _ Time 2 defines how many hours after Virtual Midnight the dimming level is according to level 2.

| Programming time [seconds] | Resulting in field [minutes] | Resulting in field [hours] |
|----------------------------|------------------------------|----------------------------|
| 10 | 0 | 0 |
| 15 | 15 | 0.25 |
| 20 | 30 | 0.5 |
| 25 | 45 | 0.75 |
| 30 | 60 | 1 |
| 35 | 75 | 1.25 |
| 40 | 90 | 1.5 |
| 45 | 105 | 1.75 |
| 50 | 120 | 2 |
| 55 | 135 | 2.25 |

Programming via U6Me2

| | | |
|-----|-----|------|
| 60 | 150 | 2.5 |
| 65 | 165 | 2.75 |
| 70 | 180 | 3 |
| 75 | 195 | 3.25 |
| 80 | 210 | 3.5 |
| 85 | 225 | 3.75 |
| 90 | 240 | 4 |
| 95 | 255 | 4.25 |
| 100 | 270 | 4.5 |
| 105 | 285 | 4.75 |
| 110 | 300 | 5 |
| 115 | 315 | 5.25 |
| 120 | 330 | 5.5 |
| 125 | 345 | 5.75 |
| 130 | 360 | 6 |
| 135 | 375 | 6.25 |
| 140 | 390 | 6.5 |
| 145 | 405 | 6.75 |
| 150 | 420 | 7 |

Programming via U6Me2

| | | |
|-----|-----|-------|
| 155 | 435 | 7.25 |
| 160 | 450 | 7.5 |
| 165 | 465 | 7.75 |
| 170 | 480 | 8 |
| 175 | 495 | 8.25 |
| 180 | 510 | 8.5 |
| 185 | 525 | 8.75 |
| 190 | 540 | 9 |
| 195 | 555 | 9.25 |
| 200 | 570 | 9.5 |
| 205 | 585 | 9.75 |
| 210 | 600 | 10 |
| 215 | 615 | 10.25 |
| 220 | 630 | 10.5 |
| 225 | 645 | 10.75 |
| 230 | 660 | 11 |
| 235 | 675 | 11.25 |
| 240 | 690 | 11.5 |
| 245 | 705 | 11.75 |

Programming via U6Me2

| | | |
|-----|-----|----|
| 250 | 720 | 12 |
|-----|-----|----|

Max. value Time 1-8

Programming via U6Me2

6.5. Light level table

| Programming time [seconds] | dimmed by [%] | resulting Lightlevel [%] |
|----------------------------|---------------|--------------------------|
| 10 | 0.0 | 100.0 |
| 15 | 5.0 | 95.0 |
| 20 | 10.0 | 90.0 |
| 25 | 15.0 | 85.0 |
| 30 | 20.0 | 80.0 |
| 35 | 25.0 | 75.0 |
| 40 | 30.0 | 70.0 |
| 45 | 35.0 | 65.0 |
| 50 | 40.0 | 60.0 |
| 55 | 45.0 | 55.0 |
| 60 | 50.0 | 50.0 |
| 65 | 55.0 | 45.0 |
| 70 | 60.0 | 40.0 |
| 75 | 65.0 | 35.0 |
| 80 | 70.0 | 30.0 |
| 85 | 75.0 | 25.0 |

Programming via U6Me2

| | | |
|-----|-------|------|
| 90 | 80.0 | 20.0 |
| 95 | 85.0 | 15.0 |
| 100 | 90.0 | 10.0 |
| 105 | 95.0 | 5.0 |
| 110 | 100.0 | 0.0 |

Programming via Script Generator and Programmer

7. Programming via Script Generator and Programmer

7.1. General information

The software tool Script Generator is based on Microsoft EXCEL and is used to generate user-defined parameter sets, called scripts. These scripts can then be transferred via the ready2mains Programmer into ready2mains capable Tridonic LED Drivers. This provides a simple, efficient and flexible way for luminaire manufacturers to program LED luminaires.



Full manual and operating handbook for programming with the tool can be found here:

- _ Programmer > Downloads > **Product handbook** →
http://www.tridonic.com/com/de/download/technical/ready2mains_Programmer_ProductManual_en.pdf
- _ ready2mains outdoor:
scripts including indoor as well as outdoor parameters (chronoSTEP2 - Virtual Midnight function) to program outdoor LED Drivers via the ready2mains protocol
- _ U6Me:
scripts including chronoSTEP 2 sequences to program outdoor LED Drivers via U6Me2
- _ Script Generator:
The latest version of the Script Generator can be found on Tridonic website:
ready2mains Programmer > Downloads > → **Script Generator**
http://www.tridonic.com/com/en/download/technical/ready2mains_Script_Generator.zip
The tool requires a PC with Microsoft EXCEL installed.

7.2. Start worksheet

After starting the Script Generator please select ready2mains Outdoor or U6Me2 function.

Programming via Script Generator and Programmer



7.3. First steps

Before programming and setting up values for the function, you have to enable the chronoSTEP functionality.

The factory default parameter is "chronoSTEP deactivated".

Therefore you have to enable the outdoor mode first.

- _ Go into the script generator
- _ Choose ready2mains Outdoor
- _ Check the parameter:"Set operating mode"

| | | | | | | |
|---|--|------|-----|---|------|------|
| X | | 0 ms | 134 | Set operating mode 0 => Dali mode; 128=> Automatic mode; 129=> DSI mode; 130=> SwitchDim mode; 131=> Corridor mode; 132=> 1-10V mode; 133=> ready2mains mode; 134=> ChronoStep2 mode | list | list |
|---|--|------|-----|---|------|------|

- _ Fill in "X" and the value 134 for chronoSTEP 2 mode.

i NOTICE

After programming the ChronoStep mode to the device, automatically **Profile 1** will be set!

7.4. Programming sequences and fields

In some script types chronoSTEP profiles can be integrated for outdoor applications. To simplify the procedure, it is recommended to use the separate worksheet chronoSTEP sequence generator.

The chronoSTEP sequence generator is available in these script types:

- _ ready2mains outdoor

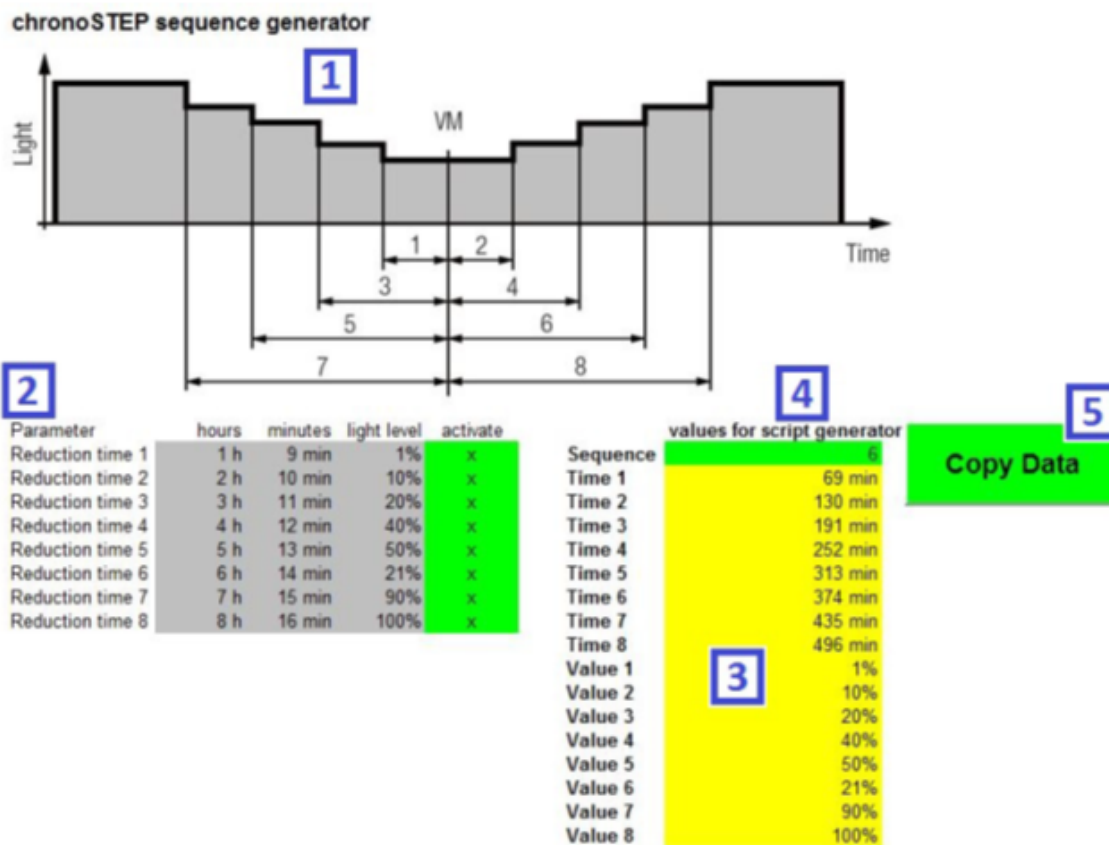
Programming via Script Generator and Programmer

- _ DALI
- _ U6Me2

If one of these script types is chosen, the chronoSTEP sequence generator worksheet will automatically be displayed.



7.5. How to create chronoSTEP profiles



| Number | Description |
|--------|---|
| 1.) | chronoSTEP sequence overview: Shows the general setup of a chronoSTEP sequence |
| 2.) | Parameter field: Define duration and light level of each sequence segment. Enter character "x" into column "activate" to integrate each line into the sequence |

Programming via Script Generator and Programmer

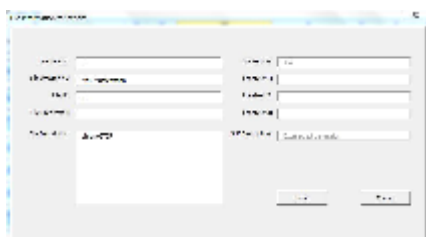
| | |
|-----|--|
| 3.) | Automatically calculated values based on the parameter field; no changes possible |
| 4.) | Sequence selection: Select the target profile number for the chronoSTEP sequence (5, 6 or 7) |
| 5.) | Press "Copy Data" to transfer profile parameter to the general script worksheet. The data is then automatically inserted into the target profile |

After conducting the steps described above, the created profiles can be found in the data set and generation worksheet Excel Script Generator.

| | | | | | | |
|-----|---|------|---------|---|---|---------|
| 105 | X | 0 ms | 08 min | chronoSTEP2 Reduction Time 1 (Sequence 6) | 0 | 720 min |
| 106 | X | 0 ms | 130 min | chronoSTEP2 Reduction Time 2 (Sequence 6) | 0 | 720 min |
| 107 | X | 0 ms | 191 min | chronoSTEP2 Reduction Time 3 (Sequence 6) | 0 | 720 min |
| 108 | X | 0 ms | 252 min | chronoSTEP2 Reduction Time 4 (Sequence 6) | 0 | 720 min |
| 109 | X | 0 ms | 313 min | chronoSTEP2 Reduction Time 5 (Sequence 6) | 0 | 720 min |
| 110 | X | 0 ms | 374 min | chronoSTEP2 Reduction Time 6 (Sequence 6) | 0 | 720 min |
| 111 | X | 0 ms | 435 min | chronoSTEP2 Reduction Time 7 (Sequence 6) | 0 | 720 min |
| 112 | X | 0 ms | 496 min | chronoSTEP2 Reduction Time 8 (Sequence 6) | 0 | 720 min |
| 113 | X | 0 ms | 1% | chronoSTEP2 Reduction Level 1 (Sequence 6) set dim level to x %. | 0 | 100% |
| 114 | X | 0 ms | 10% | chronoSTEP2 Reduction Level 2 (Sequence 6) set dim level to x %. | 0 | 100% |
| 115 | X | 0 ms | 20% | chronoSTEP2 Reduction Level 3 (Sequence 6) set dim level to x %. | 0 | 100% |
| 116 | X | 0 ms | 40% | chronoSTEP2 Reduction Level 4 (Sequence 6) set dim level to x %. | 0 | 100% |
| 117 | X | 0 ms | 50% | chronoSTEP2 Reduction Level 5 (Sequence 6) set dim level to x %. | 0 | 100% |
| 118 | X | 0 ms | 21% | chronoSTEP2 Reduction Level 6 (Sequence 6) set dim level to x %. | 0 | 100% |
| 119 | X | 0 ms | 90% | chronoSTEP2 Reduction Level 7 (Sequence 6) set dim level to x %. | 0 | 100% |
| 120 | X | 0 ms | 100% | chronoSTEP2 Reduction Level 8 (Sequence 6) set dim level to x %. | 0 | 100% |

7.6. Save ready2mains scripts

When pressing the "save to XYZ file" button, the following window appears:



Enter any additional information into the given fields, e.g. the creators name and a short description of the script content.

The script name is requested after pressing **Save**, whereon the script is saved to its place of destination.

Programming via Script Generator and Programmer

7.7. Load scripts on the Programmer

Connect the Programmer via the enclosed USB cable to the PC. All software drivers will automatically be installed on the PC. This may take several minutes.

After an initial installation, the Programmer is automatically recognized as a removable disk with approx. 4 GB internal memory.

Download the scripts by drag and drop via any file manager (e.g. Windows Explorer).

CAUTION!

It is recommended to backup all scripts and log files stored on the Programmer.

The scripts need to be stored in the root folder of the Programmer as subfolders are not supported.