

Timer

USER MANUAL

Translation of the original instructions

Version: **1.0**

Date: **05/09/2023**

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VERSION	DATE	CHANGES
1.1	05/09/2023	-


Any information inside this manual can be changed without advice.


This handbook can be download freely from the website:
www.eelectron.com

Exclusion of liability:

Despite checking that the contents of this document match the hardware and software, deviations cannot be completely excluded. We therefore cannot accept any liability for this.

Any necessary corrections will be incorporated into newer versions of this manual.

Symbol for relevant information 

Symbol for warning 



1. Timer

Communication objects involved:

"<Timer x> Enable"	1 Bit	CW
"<Timer x> Output"	1 bit / 1 byte / 2 bytes / 4 bytes	CWTU

KNX PARAMETER	SETTINGS
Timer event	none day of the year weekly sunrise/sunset
With this parameter it's possible to enable this configuration: <ul style="list-style-type: none"> none: no function day of the year: it configures two events that occur in certain days of the year. weekly: it configures events that occur in certain days of the week. Sunrise / sunset: it configures an event that occurs at the sunrise or the sunset in specific place in the world. 	
Timer name	disabled / enabled
It defines the name of the timer	
Initial timer state	disabled / enabled
It defines the initial state of the timer when activated	
Timer activation telegram	telegram "0" / telegram "1"
It defines the telegram to activate the timer.	
DPT Output	1 bit 1 byte (signed, unsigned) 1 byte 0-100 %) 2 bytes (signed, unsigned, float) 4 bytes (signed, unsigned, float)
This parameter defines the DPT of the object "<Timer x> Output". The telegram can be: <ul style="list-style-type: none"> 1 bit 1 byte (signed, unsigned) 2 bytes (signed, unsigned, float) 4 bytes (signed, unsigned, float) 	

Day of the year

KNX PARAMETER	SETTINGS
Output type	GroupValueRead GroupValueWrite
It defines how to configured the timer output: GroupValueWrite: when the event occurs, the set value is sent to the "<Timer x> Output" object; GroupValueRead: when the event occurs, the "<Timer x> Output" object is read.	
Event 1/2	
Month	January/February/March/April/ May/June/July/August/Sep- tember/October/November/ December * /2 /3 /4 /5 /6

It's possible to choose a single month, all months (*) or an interval of a number of months (/2 - /6)	
Monday	<input type="checkbox"/>
Tuesday	<input type="checkbox"/>
Wednesday	<input type="checkbox"/>
Thursday	<input type="checkbox"/>
Friday	<input type="checkbox"/>
Saturday	<input type="checkbox"/>
Sunday	<input type="checkbox"/>
It identifies the day of the month.	
Day	1...31 * /2.../15
It identifies the specific day of the month, all days (*) or a range of days (/2.../15)	
Hour	00...23 * /2.../12
It identifies the specific hour of the day, all hours (*) or a range of hours (/2.../15)	
Minute	0...59 * /2.../30
It identifies the specific minute, all minutes (*) or a range of minutes (/2.../30)	
Output value	0...100%
In GroupValueWrite mode, it defines the value to send on the object "<Timer x> Output".	
Internal logic event	none enable disable
When the event occurs, the corresponding logic is enabled	

Weekly

KNX PARAMETER	SETTINGS												
Output value x													
Depending on the type of datapoint selected, there are a defined number of values that can be associated with the output as in the following table:													
	<table border="1"> <thead> <tr> <th>DPT SIZE</th> <th>N° OUTPUT VALUES</th> </tr> </thead> <tbody> <tr> <td>1 bit</td> <td>2</td> </tr> <tr> <td>1 bytes</td> <td>8</td> </tr> <tr> <td>2 bytes</td> <td>5</td> </tr> <tr> <td>3 bytes</td> <td>3</td> </tr> <tr> <td>4 bytes</td> <td>2</td> </tr> </tbody> </table>	DPT SIZE	N° OUTPUT VALUES	1 bit	2	1 bytes	8	2 bytes	5	3 bytes	3	4 bytes	2
DPT SIZE	N° OUTPUT VALUES												
1 bit	2												
1 bytes	8												
2 bytes	5												
3 bytes	3												
4 bytes	2												
Number of events	1 ... 18												
It identifies the number of events of the timer.													
Event x													
Monday	<input type="checkbox"/>												
Tuesday	<input type="checkbox"/>												
Wednesday	<input type="checkbox"/>												
Thursday	<input type="checkbox"/>												
Friday	<input type="checkbox"/>												
Saturday	<input type="checkbox"/>												
Sunday	<input type="checkbox"/>												

It identifies the day of the month.	
Value to send	
It defines the value to send to the output depending on the type of datapoint selected.	
Time	(00:00 - 15.45) (04:00 - 19.45) (08:00 - 23:45)
The time is defined by three range of group where it's defined	

Sunrise / sunset

KNX PARAMETER	SETTINGS
Latitude	Equator Tropic of Cancer Tropic of Capricorn avanzato
It defines the latitude where the sunrise or sunset occur	
Longitude	-90...90
It defines the longitude where the sunrise or sunset occur	
Sunrise event time adjustment [min]	-128 ... 127
With this parameter it is possible to adjust the time of sunrise event.	
Sunset event time adjustment [min]	-128 ... 127
With this parameter it is possible to adjust the time of sunset event.	
Sunrise value	value 0 / value 1
It defines the value to send to the output depending on the type of datapoint selected.	
Internal logic event	none enable disable
When the event occurs, the corresponding logic is enabled	
Sunset value	value 0 / value 1
It defines the value to send to the output depending on the type of datapoint selected.	
Internal logic event	none enable disable
When the event occurs, the corresponding logic is enabled	