

Load Control

USER MANUAL

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VERSION	DATE	CHANGES
1.0	09/Jan/2024	-


Any information inside this manual can be changed without advice.


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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. Load Control

The “**Load Control**” function allows you to control the total consumption of the system up to **16 sources**.

Communication objects involved:

“<Load Control> Threshold”	2 bytes 4 bytes	CW
“<Load Control> Cumulative Status”	2 bytes	CRT
“<Load Control> Over Threshold”	1 bit	CRT
“<Load Control> Source x - Value (estimated)”	2 bytes 4 bytes	CW
“<Load Control> Source x - Value”	2 bytes 4 bytes	CW
“<Load Control> Source x - Output”	1 bit	CRT
“<Load Control> Source x - Ignore Mode”	1 bit	CW

ETS page “Configuration”

KNX PARAMETER	SETTINGS
Load control	DPT 14.019 electric current (A) DPT 9.021 current (mA) DPT 7.012 current (mA) DPT 14.056 power (W) DPT 9.024 power (kW)
This parameter defines the DPT of the object “<Load Control> Threshold”. The telegram can be: DPT 14.019 electric current (A) DPT 9.021 current (mA) DPT 7.012 current (mA) DPT 14.056 power (W) DPT 9.024 power (kW)	
Threshold after download [A/mA/W/kW]	4 bytes / 2 bytes
Defines the limit value to apply the control.	
Enable cumulative status	disabled / enabled
With this parameter it's possible to enable the object “<Load Control> Cumulative Status”.	
Sending on variation [A/mA/W/kW] (0=never)	4 bytes / 2 bytes
This parameter defines the value to send on the BUS by the object “<Load Control> Cumulative Status” when its value differs from previous one more than the value inserted.	
Cyclic send time	no cyclic sending 1, 2, 3, 4, 5, 10, 15, 20, 30, 45 minutes 1, 1 hour and 30 min, 2, 3, 4, hours
This parameter defines the time interval to send cyclically on the BUS the object “<Load Control> Cumulative Status”.	
Waiting time [min]	0...255
It defines the delay in minutes to open the first relay when above threshold (see Fig. 1).	
Waiting time [s]	0...59
It defines the delay in seconds to open the first relay when above threshold (see Fig. 1).	
Standby time [min]	0...255

It defines the interval in minutes between the opening of two relays when above threshold or the closing of two relays when below threshold (see Fig. 1).

Standby time [s]	0...59
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It defines the interval in seconds between the opening of two relays when above threshold or the closing of two relays when below threshold (see Fig. 1).

Hold time [min]	0...255
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It defines the holding time in minutes to close the first relay when below threshold (see Fig. 1).

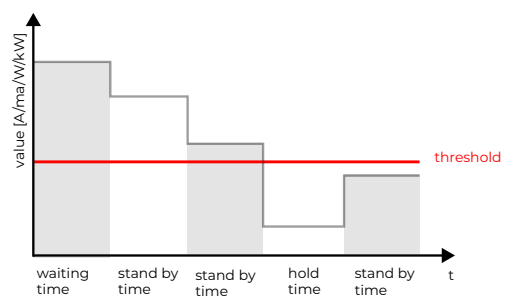


Fig. 1

ETS page “Source x”

KNX PARAMETER	SETTINGS
Source	none external internal
With this parameter it's possible to select a source. external: it's an external source. internal: in single relay configuration, the source can be also the device.	
Source name	
Defines the source name.	
Data type	DPT 14.019 electric current (A) DPT 9.021 current (mA) DPT 7.012 current (mA) DPT 14.056 power (W) DPT 9.024 power (kW)
This parameter defines the DPT of the object “<Load Control> Source x - Value” for the current and of the object “<Load Control> Source x - Value (estimated)” for the power. The telegram can be: DPT 14.019 electric current (A) DPT 9.021 current (mA) DPT 7.012 current (mA) DPT 14.056 power (W) DPT 9.024 power (kW)	
Voltage reference	voltage V1 voltage V2 voltage V3
It defines the voltage reference for the estimating of current value.	
Priority	1 (max) ... 16 (min)
Defines the priority of the source: 1 (max) : is the last relay opened and the first to be closed. 16 (min) : is the first relay opened and the last to be closed. If two or more sources have same priority, they open/close simultaneously.	
Telegram for active source	telegram “0” telegram “1”

Only for external source, it defines the telegram sent on the object "<Load Control> Source x - Output" to turn on the source. When the load control is active, the opposite telegram turns off the source.

Telegram for ignore mode

telegram "0"
telegram "1"

It defines the telegram to write on the object "<Load Control> Source x - Ignore Mode" to ignore priority and keep the source active during load control.