

Electricvalve and Servomotors



Translation of the original instructions

Version: 1.0

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VERSION	DATE	CHANGES	
1.0	28/06/2022	-	

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



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CE

1. Electric valve – general parameters

Communication objects involved:

" <output axx="" xx="" =""> Open/close"</output>	1 Bit	CW
" <output axx="" xx="" =""> PWM %"</output>	1 Byte	CW
" <output axx="" xx="" =""> Status"</output>	1 Bit	CRT
" <output axx="" xx="" =""> PWM Status %"</output>	1 Byte	CRT

The single-relay configuration allows to manage also ON / OFF solenoid valves for heating / cooling systems. The open or closed relay condition must be correctly associated with the open or closed valve condition as some valves, when energized, are open while others are closed.

The control of this type of valves can be ON / OFF through the 1 bit object <Output Axx | xx> Open / Close or PWM type. The PWM control is used to avoid the temperature hysteresis typical of the ON / OFF control. The relay operates the valve with the ON / OFF commands but performs a proportional control (0% \div 100%) based on the value received on the object <Output Axx | xx> PWM% modulating the pulse widths ON and OFF over time.







KNX PARAMETER	SETTINGS	
Valve position when relay is close	open close	
Defines the status of the valve whe	en it's energized or not.	
Telegram for valve open	Telegram 0 Telegram 1	
Defines the 1 bit valve opening telegram value.		
Global all valve closed	not subordinate subordinate	
With this parameter it is possible to subordinate the valve to the global object " <global all=""> All Valve Closed" to be set in General Parameter in ETS. This object considers the status of the valves and sends the value 1 if at least one valve is open and the value 0 if all are closed. in this way it is possible to give consent to the pump that supplies the hydraulic circuit.</global>		
Cycle base time for PWM [min]	5 255	
It defines the "cycle time" in which the actuator is activated at a time interval and then switched off again until the end of the cycle time.		
PWM lower limit value	0% ÷ 30%	

Defines the minimum value received below which the valve is always closed.		
PWM upper limit value	70% ÷ 100%	
Defines the maximum value received above which the valve is always open.		
Feedback state	disabled / enabled	
Defines whether or not to send the	status with a 1-bit object	
Telegram value for status sen- ding	telegram 0 is open / telegram 1 is close	
It defines the telegram value for sta	atus sending.	
Feedback PWM%	disabled / enabled	
Defines whether or not to send the	status with a 1-byte object	
Anti lock function	disabled / enabled	
It is possible to enable an automatic valve switching function, useful in case of long periods of inactivity, for example during the summer season. If this function is activated, it's possible to select how long the period of inactivity may last (refer to the "Anti-lock valve activation period" parameter); before the valve opens and after 5 minutes closes.		
Anti lock movement frequency	from 1 time per day up to 1 time every 16 days with granularity 1 day	
Determines the maximum valve inactivity period before the anti-lock function is activated.		
Behaviour on power up	none valve close valve open	
it defines the status of the valve after power up.		
Behaviour on power down	none valve close valve open	
it defines the status of the valve after power down.		

2. Electric valve – lock function

Communication object involved:

When the lock function is enabled, the relay allows the relay to be switched to a defined state by means of a bus telegram and forcing it to retain this status even if it receives bus commands on other switching objects.





KNX PARAMETER	SETTINGS
Lock sources	Do not use lock object Enable local lock object Enable global lock object. Enable local and global lock object
This parameter refers to the man	agement of global objects

This parameter refers to the management of global objects.

Do not use lock object

Lock function is not used

Enable local lock object The block function is activated / deactivated only via the "<Output Ax x| xx> Lock"

Enable global lock object

The block function is only activated / deactivated via the object "<Global All> Lock"

Enable local and global lock object

The block function is activated / deactivated via the "<Output Axx | xx> Lock" or the "<Global All> Lock" object

KNX PARAMETER	SETTINGS		
Lock state after download	Locked / unlocked		
Set the value of the block function	after download		
Telegram for lock activation	Activate on OFF telegram Activate on OFF telegram		
Defines which telegram is to lock a	nd which one is to unlock.		
Automatic unlock after time (0 = never unlock automatically) [min]	0120		
Lock can be set as a timed function, the lock function is deactivated at the end of the blocking time.			
If the lock function is set with automatic deactivation, the time- out time is reloaded each time a new lock activation telegram is received.			
Action on lock	none valve close valve open		
This parameter selects the state that the valve must assume when the "lock" function is activated.			
Action on unlock	none valve close valve open last value received last value before lock		

This parameter selects the state that the valve must assume when the "lock" function is disabled.

3. Servomotors – general parameters

Communication objects involved:

" <output bx="" xx="" =""> Open/close"</output>	1 Bit	CW
" <output bx="" xx="" =""> Position %"</output>	1 Byte	CW
" <output bx="" xx="" =""> Position 1"</output>	1 Bit	CW
" <output bx="" xx="" =""> Position 2"</output>	1 Bit	CW
" <output bx="" xx="" =""> Position 3"</output>	1 Bit	CW
" <output bx="" xx="" =""> Lock"</output>	1 Bit	CW
" <output bx="" xx="" =""> Status"</output>	1 Bit	CRT
" <output bx="" xx="" =""> Position Status %"</output>	1 Byte	CRT
" <output bx="" xx="" =""> Opening Status"</output>	1 Bit	CRT
" <output bx="" xx="" =""> Closing Status"</output>	1 Bit	CRT

The block includes the association of 2 relays for the management, in HVAC systems, of servomotors, 3-way valves or ventilation grilles.

The management of the 3-way valves is carried out using the coupled relays, in each pair of relays one executes the OPE-NING action and the other the CLOSING.



The parameters allow to set:

- The total opening / closing time
- The opening extra-time
- The closing extra-time
- The minimum pause time between 2 movements
- The frequency of the anti-locking function
- The status sent on the bus

Through these 1 bit communication objects it is possible to set the position of the valve or of the servomotor.

KNX PARAMETER	SETTINGS	
Contact type	normally open normally close	
Defines the status of the valve whe	en it's energized or not.	
Global all valve closed	not subordinate subordinate	
With this parameter it is possible to subordinate the servomotor to the global object " <global all=""> All Valve Closed" to be set in General Para- meter in ETS. This object considers the status of the valves and sends the value 1 if at least one valve is open and the value 0 if all are closed. in this way it is possible to give consent to the pump that supplies the hydraulic circuit.</global>		
Total revolution time [s]	03000	
It defines the time it takes to go fro	m closed to open.	
Extra time for motor opening [s]	1 ÷ 30	
It defines the additional time that a the servomotor	applies for the complete opening of	
Extra time for motor closing [s]	1 ÷ 30	
It defines the additional time that the servomotor	applies for the complete closing of	
Stop time between 2 same mo- tor movements	100800 ms / 1, 1.5, 2, 2.5, 3, 4, 5 sec	
It defines the pause time between	2 same motor movements.	
Stop time between 2 opposite motor movements	100800 ms / 1, 1.5, 2, 2.5, 3, 4, 5 sec	
It defines the pause time between 2 opposite motor movements.		
Telegram for open	telegram 0 / telegram 1	
It defines the telegram sent on object " <output bx="" xx="" =""> Open/close" to open.</output>		
Position 1	0% ÷ 100% (default 30%)	
With this parameter is possible to set the position of the valve or of the servomotor.		



Position 2 0% + 100% (default 65%) With this parameter is possible to set the position of the valve or of the servomotor. 0% + 100% (default 100%) With this parameter is possible to set the position of the valve or of the servomotor. 0% + 100% (default 100%) Anti-lock Function disabled / enabled It is possible to enable an automatic valve switching function, useful in case of long periods of inactivity, for example during the summer season. If this function is activated, it's possible to select how long the period of inactivity may last (refer to the "Anti-lock valve activation period" parameter); before the valve opens and after 5 minutes closes. Anti-lock movement frequency every day + every 16 days Determines the maximum valve inactivity period before the anti-lock function is activated. stop - no movement close open Behaviour on power up is dsp - no movement close open is defines the status of servomotor after power up. Lock sources Do not use lock object Enable local lock object. Enable local and global lock object. Enable local and global lock object This parameter refers to the management of global object/sock function is activated / deactivated only via the " <output ax="" xx="" x =""> Lock" Enable local lock object Enable local lock object The block function is activated / deactivated via the object the "<global all=""> Lock object" The block function is activated / deactivated via the "<output ax="" xx="" x =""> Lock"</output></global></output>			
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KNX PARAMETER SETTINGS	or closing statut of the valve.		
	-	SETTINGS	

	CETTINGO	
Lock state after download	Locked / unlocked	
Set the value of the block function after download		
Telegram for lock activation	Activate on OFF telegram Activate on OFF telegram	
Defines which telegram is to lock and which one is to unlock.		

Automatic unlock after time (0 0...120 = never unlock automatically) [min] Lock can be set as a timed function, the lock function is deactivated at the end of the blocking time. If the lock function is set with automatic deactivation, the timeout time is reloaded each time a new lock activation telegram is received. stop - no movement Action on lock close open This parameter selects the state that the servomotor must assume when the "lock" function is activated. none close Action on unlock open

This parameter selects the state that the servomotor must assume when the "lock" function is disabled.

last value received last value before lock