INTERRA MINICIPAL CONTENT

EIO12S (12 Channels or 12 Channels+2 sensors) I/O Module

Product Manual



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The first two letters of the literature are the type of document. The numbers that follow are the creation date of the document and the last letter is the version (e.g., PM131126001A is the version A of a product manual created on the date 26/11/13.

TECHNICAL DATA

Device	EIO12S
Power Consumption	0.9W
Number of binary inputs	12
Number of binary outputs	12
Water Flood Sensor*	1
Digital Sensors*	2x Temperature and Humidity
Input Voltage	100-250VAC@50Hz
Contact Capacity	Inrush type (16A, Inrush current 100A)
Type of protection	IP 20
Ambient temperature range	- 5°C45 °C
Mounting	DIN Rail
Dimensions	59.3x86x157.8 mm (HxWxD) 9 DIN units
Weight	390gr

*The sensors are optional.

Digital Sensors	Temperature	Relative Humidity
Operating Range	- 40 °C…120 °C	0 %RH100 %RH
Accuracy	± 0.4 °C	± 3.0 %RH

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1. FUNCTIONAL DESCRIPTION

The digital I/O module is available with 12 inputs/12 outputs. Additionally 2 sensors can be added. Both device versions support the following functions:

- On/Off
- Toggle
- Timer
- Shutters 230 V~
- Shutters 24 V s
- External dimmer (available only with the EEA001A external dinner, not supplied).

EIO12S, with sensors, supports also the control of heating or cooling systems since it includes 2 temperature and humidity sensors.

PRODUCT DESCRIPTION

- Inputs: 12 dry contacts
- Outputs: 12 ON/OFF relay outputs
- Push button for navigation of menus
- LCD screen for viewing the I/O and menus
- 230 V terminals
- RJ45 network connector

Consideration before use:

- It is known that inrush current is very high for capacitive loads. If a capacity load too high is connected the device might be damaged. Therefore, before connecting a capacity load to the device, you must measure its inrush current and be sure the device can support it.

2. LCD MENU

Via the LCD screen available, it is possible to know the status of the device channels and the network settings. Besides, the DCHP service can be set on or off. The different options are described below.

In ¹² ⁴ OUT ¹² ^B -	Status the bo The nu Note: ⁻	Screen: The up line shows the current status of every input while ttom line shows the status of the outputs. umbers indicate the inputs and outputs which are currently actives. The numbers 10, 11 and 12 correspond to the letters A, B and C.
VIEW SENSOR VALUES	Senso	r Values.
VIEW NETWORK	Netwo	rk settings.
Reset modul.with		Set the DCHP on.
Reset modul.with		Set the DCHP off.
Restart module	-	Restart the device.
Short press	ng Press	



- Sensor Values

In ¹² ⁴ OUT ¹² ^B -	Status Screen: The up line shows the current status of every input while the bottom line shows the status of the outputs. The numbers indicate the inputs and outputs which are currently actives. Note: The numbers 10, 11 and 12 correspond to the letters A, B and C.
VIEW SENSOR VALUES	Sensor Values.
S1: 25.7 ∘C 63.2 RH	The up line shows the current values of the sensor 1 and the bottom line of the sensor 2.



- Network Settings

In ¹² ⁴ OUT ¹² ^B -	Status Screen: The up line shows the current status of every input while the bottom line shows the status of the outputs. The numbers indicate the inputs and outputs which are currently actives. Note: The numbers 10, 11 and 12 correspond to the letters A, B and C.
VIEW SENSOR VALUES	Sensor Values.
VIEW NETWORK	Network settings.
Netbios name Eio12 0000	Device Hostname configured.
Dchp enabled	This screen shows whether the DCHP function is enabled or disabled.
Ip address 192.168.1.222	IP address settings. This section shows the IP address configured. In this example the default IP address.
Subnet mask 255.255.255.0	Subnet Mask settings. This screen shows the subnet mask configured. In this example the default subnet mask.



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Ļ	
Gateway address	Gateway address settings. This section shows the gateway address configured. In this example the default gateway address.
Ļ	
DNS address 192.168.1.1	DNS address settings. This screen shows the DNS address configured. In this example the default DNS address.
: Short press	Press

3. USER INTERFACE

The complete configuration of the device is performed via a friendly user interface. "EIO12S.exe" application must be installed in the user computer. Ethernet connection is required.

Running this application, the next window is shown. For the first connection, it is necessary to insert the IP default address or the device default hostname described above.

3.1.HOME



It is also possible to make a search of the products available on the network via the lens button present in the "Home" window.

In order to discover the devices available, it is necessary to define the IP range to make the search.



3.2. OUTPUT CONFIGURATION

A Interra - EIO12S Admin Panel v2.0		
IP/Hostname : 192.168.1.29	Q Disconnect 🥎	INTERRA
Home Output Config	Manual Panel Settings	
Global Visualization	🛃 Import 🏦 Export Copy	
Naming	Out Function Control1 Control2 Auth(OFF) Auth(Pre) Auth(ON) Time1(s) Time2(s) Logic Rule	
Output1	1 Not Used Please configure the output	
Output2	2 Not Used Please configure the output	
Output3	3 Not Used Please configure the output	
Output4	4 Not Used Please configure the output	
Output5	5 Not Used Please configure the output	
Output6	6 Not Used Please configure the output	
Output7	7 Not Used Please configure the output	
Output8	8 Not Used Please configure the output	
Output9	9 Not Used Please configure the output	
Output10	10 Not Used Please configure the output	
Output11	11 Not Used Please configure the output	
Output12	12 Not Used Please configure the output	
	l	
	Upload from Product	Download to Product

In the "Output Config" window is where the related functions for each output are defined.

3.2.1. Global Visualization

The aim of this sub window is to have a global overview of the product configuration. The function chosen and the main parameters of each output are shown here.

Via the button "Import" it is possible to import a new file (.112) which content a full configuration of the product. This can be an old configuration previously saved. On the other hand, via the "Export" button, the current configuration of the product can be exported into a file and saved.

It is also possible to copy the configuration between different devices present on the network via option "Copy". For this it is necessary to define the IP address of the product to be copied and the IP of the product where the copy will be done. After this and by pressing Copy, the 2 products will have the same configuration.

Copy Con	figuration	×
From IP :	192.168.1.1	Contra
To IP :	192.168.1.254	сору

3.2.2. Naming

The description of every input and output can be written via this window. This will be used only as information.

ostname : 192.168.1.29	O,	Disconnect 🧡			INTERF
Home Output Co	nfig Man	ual Panel Settings			
Global Visualization	Input	Comment	Output	Comment	
Naming	1		1		
Output1	2		2		
Output2	3	,	3		
Output3					
Output4					
Output5	5		5		
Output6	6		6		
Output7	7		7		
Output8	8		8		
Output9	9		9		
Output10	10		10		
Output11	11		11		
Output12	12		12		

3.2.3. Outputs

The exact functions of the outputs depend on the configuration that you establish in this window. Refer to seccion number 4 for more detailed information about the functions available.

tname : 192.168.1.29	O Disconnect			INTE
Home Output Config	Manual Panel	Settings		
Global Visualization				
Naming	Function	Not Used	-	
Output1				
Output2				
Output3				
Output4				
Output5				
Output6				
Output7				
Output8				
Output9				
Output10				
Output11				
Output12				

3.3. MANUAL

The "Manual" window shows the current status of every device channel and allows for forcing the virtual inputs.

Home Output Config Manual Panel Settings Virtual Input 1 IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8 IN9 IN10 IN11 IN12 Virtual Input 2 Virtual Input 3 IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8 IN9 IN10 IN11 IN12	Sensors
Virtual Input 1 Virtual Input 2 Virtual Input 3	Sensors
Virtual Input 2 Virtual Input 3	
Virtual Input 3	Temperature 1 : M
	Humidity 1 : M
Virtual Input 4	Temperature 2 : 1
Virtual Input 5	Humidity 2 : 1
Virtual Input 6	INTERRA Water Flood
Virtual Input 7	
Virtual Input 8	
Virtual Input 9	No.
Virtual Input 10	6
Virtual Input 11 の (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	몸
Virtual Input 12	•

- Outputs: Every output status is shown. When an output is active, the colour changes to green.
- Inputs: Every input status is shown. When an output is active, the colour changes to green.
- Virtual Inputs: Virtual inputs can be used as a logic elements in this window. These inputs can be modified from the buttons available on the left side or from remote connection over TCP sockets. Up to 4 simultaneous are possible.
- Monitoring: The temperature, humidity and water flood sensors values are monitored here. When a water alarm occurs, the water flood status changes to red.

3.4. SETTINGS

Network settings configuration and firmware update can be done through this window.

3.4.1. Settings

🛤 Interra - EIO12S Admin Pane	el v20	
IP/Hostname : 192.168.3	1.29 O, Disconnect 🌱	INTERRA
Home O	Output Config Manual Panel Settings	
Network Settings		
Firmware Update	NETBIOS Name : EEF012_0000	
	DHCP Enabled : 🗹	
	IP: 192.168.1.29	
	Subnet Mask : 255.255.255.0	
	Gateway : 192.168.1.1	
	DNS: 192.168.1.1	
	MAC : 00-05-A3-00-00	
	,	
	Upload NW Settings Download NW Settings	

DCHP option can be enabled or disabled via the check box available. When DCHP is disabled the network configurations must be defined.

Via the "Upload NW Settings" and "Download NW Settings" buttons, the network configuration can be loaded to the device or retrieved from it.



3.4.2. Firmware Update

🖣 Interra - EIO12S Admin	Panel v2.0	
IP/Hostname : 192.1	68.1.29 O Disconnect	INTERRA
Home	Output Config Manual Panel Settings	
Network Setting	S	
Firmware Updat	e Check The Latest Firmware Version	
	Current Version	
	EIO125 .2.0	
	New Firmware Available : EI0125.1.13	
	Update Firmware From Server Update Firmware From File	

Through this window, it is possible to update the software. There are two options to do this:

- The application can check if there is any update available pressing the button "Get Current Firmware Version". Once a new update has been found, pressing the button "Update Firmware", the update will be load to the device.



For this option internet connection is required and TFTP Client must be active in the computer. It is possible to activate this option in Control Panel/Programs and Features/Turn Windows features on or off.

- A new software update can be also loaded via a file. The manufacturer is able to provide a file that can be imported pressing the button "Update Firmware From File".

4. FUNCTIONS DESCRIPTION

Several functions are available for the configuration of the product. Via the window "Output configuration" the functiones can be set.

4.1.ON/OFF FUNCTION

4.1.1. Function Description

This function is available for all outputs.

User can control any load connected to the dedicated output via on/off function. The load can be switched on or switched off.

PARAMETER	DESCRIPTION	VALUES
		Not used
		On/Off
Function	I lead to select the output function	Toggle
		Timer
		Shutters
		External dimmers
		Input
Control type	Select the type of control	Virtual input
control type		Output Status
		Logic rule
		IN1
		IN2
		IN3
		IN4
		IN5
		IN6
	If Control type is equal to "input	IN7
		IN8
		IN9
		IN10
		IN11
		IN12
		VIN1
		VIN2
	If Control type is equal to "Virtual input"	VIN3
		VIN4
		VIN5
		VIN6

4.1.2. List of Parameters

		VIN7
		VIN8
		VIN9
		VIN10
		VIN11
		VIN12
		OUT1
		OUT2
		OUT3
		OUT4
		OUT5
	If Control type is equal to "Output Status"	OUT6
		OUT7
		OUT8
		OUT9
		OUT10
		OUT11
		OUT12
Control polarity	Select polarity of control type	1=Active,0=Deactivate
Control polarity	Select polarity of control type	1=Deactivate,0=Active
Logic rule	Used to configure logic to control output	-
Engaging delay (s)	Used to set a engaging delay	0 (0-65535)
Release delay (s)	Used to set a release delay	0 (0-65535)
		-
Authorization (OFF)	Used to configure authorization to control	Nintual in aut
	output	
		Output Status
		IN2
		IN3
		INS
	If Authorization type is equal to "Input"	
		IN11
		IN12
		VIN1
		VIN2
	If Authorization type is equal to "Virtual Input"	VIN3
		VIN4
		VIN5

		VING
		VIN7
		VIN8
		VIN9
		VIN10
		VIN11
		VIN12
		OUT1
		OUT2
		OUT3
		OUT4
	If Authomization true is a such to "Output Otatus"	OUT5
		OUT6
	In Authorization type is equal to Output Status	OUT7
		OUT8
		OUT9
		OUT10
	OUT11	
		OUT12
Polority	Select polority of outborization	1=Active,0=Deactivate
rolality		1=Deactivate,0=Active

4.1.3. Configuration Description

The dedicated output can be controlled in 4 different ways. Via the parameter "control type" the selection of input, virtual input, output status or logic rule can be set.

Example of logic rule: IN3=VIN2.



4.1.3.1. Delays Configuration

It is possible to configure 2 types of delays via the parameters "Engaging delay" and "Release delay".

- Engaging delay (s): Once the control is active in order to switch on the output, the output will be activated after the time configured in the engaging delay parameter.
- Release delay (s): Once the control is active in order to switch off the output, the output will be deactivated after the time configured in the release delay parameter.

The details of the delays behaviour can be observed in the following drawing:



4.1.3.1. Authorization description:

The authorization allows the user to define a signal as the main controller. Only when the authorization is true, the normal control of the output is allowed.

Via the parameter "authorization type" the selection of input, virtual input or output status can be set.

With this option, the status of the dedicated output takes the value 0 while the authorization is not activated. Once the authorization is true, the output can be controlled as normally.



4.2.TOGGLE FUNCTION

4.2.1. Function Description

This function is available for all outputs.

User can control any load connected to the dedicated output via toggle function. The load can be switched on or switched off.

PARAMETER	DESCRIPTION	VALUES
Function	Used to select the output function	Not used On/Off Toggle Timer Shutters External dimmers
Edge type	Select the type of edge	Falling edge Rising edge
After power Failure	Select the action after power failure	On Off Previous Value
Control type	Select the type of control	Input Virtual input Output Status Logic rule
	If Control type is equal to "Input"	IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8 IN9 IN10 IN11 IN12
	If Control type is equal to "Virtual input"	VIN1 VIN2 VIN3 VIN4 VIN5 VIN6

4.2.2. List of Parameters

		VIN7
		VIN8
		VIN9
		VIN10
		VIN11
		VIN12
		OUT1
		OUT2
		OUT3
		OUT4
		OUT5
	If Control type is equal to "Output Status"	OUT6
		OUT7
		OUT8
		OUT9
		OUT10
		OUT11
		OUT12
		1=Active.0=Deactivate
Control polarity	Select polarity of control type	1=Deactivate,0=Active
		-
Engaging delay (s)	Used to set a engaging delay	0 (0-65535)
Release delay (s)	Used to set a release delay	0 (0-65535)
Authorization (OFF Dravious		-
Authorization (OFF, Previous	Used to configure authorization to control	
value or ON)	output	Virtual input
		Output Status
		IN1
		IN2
		IN3
		IN4
		IN5
	If Authorization type is equal to "Input"	IN6
		IN7
		IN8
		IN9
		IN10
		IN11
		IN12
		VIN1
		VIN2
	If Authorization type is equal to "Virtual Input"	VIN3
		VIN4
		VIN5

		VIN6
		VIN7
		VIN8
		VIN9
		VIN10
		VIN11
		VIN12
		OUT1
		OUT2
		OUT3
		OUT4
		OUT5
	If Authorization type is equal to "Output Statue"	OUT6
	In Authonization type is equal to Output Status	OUT7
		OUT8
		OUT9
		OUT10
		OUT11
		OUT12
Delevity		1=Active,0=Deactivate
Polarity	Select polarity of authorization	1=Deactivate,0=Active
	1	1

4.2.3. Configuration Description

The dedicated output can be controlled in 4 different ways. Via the parameter "control type" the selection of input, virtual input, output status or logic rule can be set.

4.2.3.1. Edge type:

Via the "Edge type" parameter, the type of toggle to be used can be selected:

- Falling edge: this function allows the output to behave as toggle falling edge. Due to the falling edge detection, the output will change its status only when the control changes from 1 to 0. The details of this behaviour can be observed in the following drawing:



- Rising edge: this function allows the output to behave as toggle rising edge. Due to the rising edge detection, the output will change its status only when the control changes from 0 to 1. The details of this behaviour can be observed in the following drawing:



4.2.3.2. Action after power failure

The reaction of the output after power failures can be set via the parameter "After Power Failure":

- ON: The output will be switched ON after power failures.
- OFF: The output will be switched OFF after power failures.
- Previous value: The output will recover the previous status after power failures.

4.2.3.3. Delays configuration

It is possible to configure 2 types of delays via the parameters "Engaging delay" and "Release delay".

- Engaging delay (s): Once the control is active in order to switch on the output, the output will be activated after the time configured in the engaging delay parameter.
- Release delay (s): Once the control is active in order to switch off the output, the output will be deactivated after the time configured in the release delay parameter.

The details of the delays behaviour can be observed in the following drawing:





4.2.3.4. Authorization description

The authorization allows the user to define a signal as the main controller. Only when the authorization is true, the normal control of the output is allowed.

Via the parameter "authorization type" the selection of input, virtual input or output status can be set.

With this option, the status of the dedicated output takes the value 0 while the authorization is false. For toggle function, 3 types of authorization are available. Via the parameter "Action if authorization=1", the reaction of the output when the authorization takes the value 1 can be selected.

- Off: The output is switched off.
- On: The output is switched on.
- Previous value: the output takes the previous value stored.

4.3.TIMER FUNCTION

4.3.1. Function Description

This function is available for all outputs.

User can control any load connected to the dedicated output via Timer function. The load can be switched during a certain time.

PARAMETER	DESCRIPTION	VALUES
Function	Used to select the output function	Not used On/Off Toggle Timer Shutters External dimmers
Control type	Select the type of control	Input Virtual input Output Status Logic rule
	If Control type is equal to "Input"	IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8 IN9 IN10 IN11 IN12
	If Control type is equal to "Virtual input"	VIN1 VIN2 VIN3 VIN4 VIN5 VIN6 VIN7 VIN8 VIN9 VIN10 VIN11

4.3.2. List of Parameters

		VIN12
		OUT1
		OUT2
		OUT3
		OUT4
		OUT5
	If Control type is equal to "Output Status"	OUT6
		OUT7
		OUT8
		OUT9
		OUT10
		OUT11
		OUT12
Control polarity	Select polarity of control type	1=Active,0=Deactivate
		1=Deactivate,0=Active
Logic rule	Used to configure logic to control output	-
Timer duration (s)	Used to set the timer duration	0 (0-65535)
		Disabled No limitation
	Select the number of times allowed for the duration extension	1 extension
Ext. Limitation		2 extension
		3 extension
		4 extension
		Disabled
Pre Warning	Used to enable the pre warning function	Enabled
Pre Warning Duration (s)	Use to set the pre warning duration	0 (0-65535)
		-
Authorization (OFF	osed to conligure authorization to control	Virtual input
	output	
		IN2
		IN3
		IN4
		IN5
		ING
	If Authorization type is equal to "Input"	IN7
		IN8
		IN9
		IN10
		IN11
		IN12

		F
		VIN1
		VIN2
		VIN3
		VIN4
		VIN5
	If Authorization type is equal to "Virtual Input"	VIN6
		VIN7
		VIN8
		VIN9
		VIN10
		VIN11
		VIN12
		OUT1
		OUT2
		OUT3
		OUT4
		OUT5
		OUT6
	If Authorization type is equal to Output Status	OUT7
		OUT8
		OUT9
		OUT10
		OUT11
		OUT12
	1=Active,0=Deactivate	
Polarity	Select polarity of authorization	1=Deactivate,0=Active

4.3.3. Configuration Description

The dedicated output can be controlled in 4 different ways. Via the parameter "control type" the selection of input, virtual input, output status or logic rule can be set.

Example of delays:







4.3.3.2. Pre Warning

This functionality allows to inform that the timer will stop in x seconds ("Cut-off pre warning duration" parameter). The information is done through the inversion of the output state (binary product) or a diminution the luminosity intensity (dimmer).



4.3.3.3. Timer Retriggerability

If multiple commands to start the timer are received in an interval of 10 seconds from the first boot received, the effective delay is equal to the value of the parameter "Timer duration" multiplied by the number of command "Start" received, up to parameter value "Timer duration extension limitation", during these 10 seconds.

Any new command "Start" or any new sequence of several "Start" performed in less than 10 seconds, received after the 10-second interval timer replaces the previous one with the new value.

This functionality can be deactivated through the parameter "Activation of timer retriggerability".

Example 1:



Example 2:



4.3.3.4. Authorization description

The authorization allows the user to define a signal as the main controller. Only when the authorization is true, the normal control of the output is allowed.

Via the parameter "authorization type" the selection of input, virtual input or output status can be set.

With this option, the status of the dedicated output takes the value 0 while the authorization is not activated. Once the authorization is true, the output can be controlled as normally.

4.4.SHUTTER FUNCTION

4.4.1. Function Description

User can control 230VAC and 24VDC shutters. It is necessary 2 dedicated outputs to control 230VAC shutters and 4 dedicated outputs for 24VDC shutters. The user can move up and down the shutter and adapt it to his needs.

The need of 2 or 4 consecutive outputs conditions the configuration.

- 2 outputs shutter: outputs 1, 3, 5, 7, 9 and 11 are available.
- 4 outputs shutter: outputs 1, 5 and 9 are available.

PARAMETER	DESCRIPTION	VALUES
Function	Used to select the output function	Not used On/Off Toggle Timer Shutters External dimmers
Shutter type	Select the type of shutter	2 outputs 230VAC 4 outputs 24VDC
Control mode	Select the control mode	2 buttons 1 button
Up/Down Button	If Control mode is equal to "1 button"	IN1 / VIN1 IN2 / VIN2 IN3 / VIN3 IN4 / VIN4 IN5 / VIN5 IN6 / VIN6 IN7 / VIN7 IN8 / VIN8 IN9 / VIN9 IN10 / VIN10 IN11 / VIN11 IN12 / VIN2
Up Button	If Control mode is equal to "1 button"	IN1 / VIN1 IN2 / VIN2 IN3 / VIN3 IN4 / VIN4 IN5 / VIN5 IN6 / VIN6 IN7 / VIN7 IN8 / VIN8

4.4.2. List of Parameters

		IN9 / VIN9
		IN10 / VIN10
		IN11 / VIN11
		IN12/VIN2
		IN1 / VIN1
		IN2 / VIN2
		IN3 / VIN3
	If Control mode is equal to "1 button"	IN4 / VIN4
		IN5 / VIN5
		IN6 / VIN6
Down Button		IN7 / VIN7
		IN8 / VIN8
		IN9 / VIN9
		IN10 / VIN10
		IN11 / VIN11
		IN12/VIN2
Up Duration (c)	Llood to configure the up duration	120 (0 65525)
op Duration (s)	Used to conligure the up duration	120 (0-05555)
Down Duration (s)	Used to configure the down duration	120 (0-65535)
		Input
Enchling Condition	Coloct the type of each line condition	Virtual input
Enabling Condition	Select the type of enabling condition	Output Status
		Logic rule
		IN1
		IN2
		IN3
		IN4
		IN5
	If enabling condition is equal to "Input"	IN6
		IN7
		IN8
		IN9
		IN10
		IN11
		IN12
		VIN1
		VIN2
		VIN3
		VIN4
	If enabling condition is equal to "Virtual input"	VIN5
		VIN6
		VIN7
		VIN8
		VIN9
	VIN10	
		VIN11

		VIN12
	If enabling condition is equal to "Output Status"	OUT1
		OUT2
		OUT3
		OUT4
		OUT5
		OUT6
		OUT7
		OUT8
		OUT9
		OUT10
		OUT11
		OUT12
Control polarity	Select polarity of the enabling condition	1=Active,0=Deactivate
		1=Deactivate,0=Active

4.4.3. Configuration Description

The shutter connected to the dedicated outputs can be controlled with 1 or 2 inputs. Via the parameter "Control mode" this configuration can be set.

4.4.3.1. Configuration with 1 button

User can both raise and lower the blind with a single push-button. Each short press will send a value following this sequence "up", "stop", "down" and "stop". The current direction of movement always depends on the previous action.

If the shutter is being raised and another short press occurs before the up duration has been reached, this new press will stop the movement. The same happens if the shutter is being lowered.

Via the parameter "Control type 1 (Up/Down)" the input which will control the shutter can be selected. The corresponding virtual input is automatically associated too. (Example: Input 1 is selected in the parameter "Control type 1 (Up/Down)" to control a shutter. Automatically Virtual Input 1 is associated to control the same shutter.

4.4.3.2. Configuration with 2 buttons

Two inputs are necessary for this option.

With the combination of both push buttons, the shutter can be lowered or raised. One input will be dedicated to lower the shutter while the other will raise it.

⇒ Long press: [>500ms]

With a long push button action the shutter is lowered or raised. When push button is released, the shutter does not stop. The motion continues until the motion duration is elapsed or the push button is pressed with a short press.

⇒ Short press: [<500ms]

A short push button action ends a current motion or adjusts the shutter by one step if it is currently stopped.

4.4.3.3. Motion duration:

The time duration for both movements, Up and Down, can be parameterized via the parameters "Up duration (s)" and "Down duration (s)".

Inversion time value = 1sec

4.4.3.4. Enabling Condition

A enabling condition can be defined to authorize the control of the shutter. Only when the control type is activated, the normal control of the shutter is allowed.

4.5. EXTERNAL DIMMER FUNCTION

4.5.1. Function Description

This function is available with all outputs.

If "External dimmer" function is selected, user can control indoor lighting and it allows the end user to adapt artificial light level to his activities, needs and visual comfort with Hager EEA001A dimmer connected to the corresponding output.

PARAMETER	DESCRIPTION	VALUES
Function	Used to select the output function	Not used On/Off Toggle Timer Shutters External dimmers
Control mode	Select the control mode	2 buttons 1 button
Up/Down Button	If Control mode is equal to "1 button"	IN1 / VIN1 IN2 / VIN2 IN3 / VIN3 IN4 / VIN4 IN5 / VIN5 IN6 / VIN6 IN7 / VIN7 IN8 / VIN8 IN9 / VIN9 IN10 / VIN10 IN11 / VIN11 IN12 / VIN2
Up Button	If Control mode is equal to "1 button"	IN1 / VIN1 IN2 / VIN2 IN3 / VIN3 IN4 / VIN4 IN5 / VIN5 IN6 / VIN6 IN7 / VIN7 IN8 / VIN8 IN9 / VIN9 IN10 / VIN9 IN10 / VIN10 IN11 / VIN11 IN12 / VIN2

4.5.2. List of Parameters

Down Button	If Control mode is equal to "1 button"	INT / VINT IN2 / VIN2 IN3 / VIN3 IN4 / VIN4 IN5 / VIN5 IN6 / VIN6 IN7 / VIN7 IN8 / VIN8 IN9 / VIN9 IN10 / VIN10 IN11 / VIN11 IN12 / VIN2
Enabling Condition	Select the type of enabling condition	Input Virtual input Output Status Logic rule
	If enabling condition is equal to "Input"	IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8 IN9 IN10 IN11 IN12
	If enabling condition is equal to "Virtual input"	VIN1 VIN2 VIN3 VIN4 VIN5 VIN6 VIN7 VIN8 VIN7 VIN8 VIN9 VIN10 VIN10 VIN11 VIN12
	If enabling condition is equal to "Output Status"	OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7

		OUT8
		OUT9
		OUT10
		OUT11
		OUT12
Control polarity	Select polarity of the enabling condition	1=Active,0=Deactivate
,	· · · · · · · · · · · · · · · · · · ·	1=Deactivate,0=Active
	Used to configure authorization to control output	-
Authorization (OFF, Previous		Input
value or ON)		Virtual input
		Output Status
		IN2
		IN3
		IN4
		IN5
	If Authorization type is equal to "Input"	IN6
		IN7
		IN8
		IN9
		IN10
		IN11
		IN12
		VIN2
		VIN3
	If Authorization type is equal to "Virtual Input"	
		VIN9
	If Authorization type is equal to "Output Status"	
If Authorization type is equal to	In Addition Zation type is equal to Output Status	
		OUT10

		OUT12
Polarity	Select polarity of authorization	1=Active,0=Deactivate
		1=Deactivate,0=Active

4.5.3. Configuration Description

If "control type" parameter is equal to "1 button" or "2 buttons", only input or virtual input can control dedicated output with external dimmer function.

Otherwise, the output can be controlled by "logic rule".

4.5.3.1. Configuration with 1 button

⇒ Short press: [50ms - 500ms]

When push button is pressed and released between 50ms and 500ms a short press is detected.

Each short press reverses the output state (On/Off).

If previous state is 0%, next state after short press will be equal to last value applied (default value is 100%).

⇒ Long press: [500ms – 10 000ms]

When push button is pressed, after 500ms, dimming ramp starts. When push button is released, dimming ramp stops.

Each long press reverses the curve direction (Up/Down).

4.5.3.2. Configuration with 2 buttons

⇒ Short press: [50ms - 500ms]

When push button is pressed and released between 50ms and 500ms a short press is detected.

- For input dedicated to On/Up/stop control: Each short press will switch the output to the last value applied (default value is 100%).
- For input dedicated to Off/Down/stop control: Each short press will switch the output to off.

⇒ Long press: [500ms – 10 000ms]

When push button is pressed, after 500ms, dimming ramp starts. When push button is released, dimming ramp stops.

- For input dedicated to On/Up/stop control: each long press starts dimming to Up until push button is released and stop the dimming at the release of the push button.

- For input dedicated to Off/Down/stop control: each long press starts dimming to down until push button is released and stop the dimming at the release of the push button.

4.5.3.3. Authorization description

The authorization allows the user to define a signal as the main controller. Only when the authorization is true, the normal control of the output is allowed.

Via the parameter "authorization type" the selection of input, virtual input or output status can be set.

With this option, the status of the dedicated output takes the value 0 while the authorization is false. For dimmer function, 3 types of authorization are available. The reaction of the output when the authorization takes the value 1 can be selected.

- Off: The output is switched off.
- On: The output is switched on.
- Previous value: the output takes the previous value stored.

4.5.3.4. Power Failure

When power failure is detected, current setpoint is saved and then applied once power on is detected again.

CONTACT INFORMATION

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