## Datasheet GRENTON ROLLER SHUTTER WiFi WRE-222-W-01

Grenton ROLLER SHUTTER WiFi allows you to control a roller shutter drive and two digital inputs (230 V<sub>aC</sub>). It contains the Common Logic Unit (CLU) with WiFi wireless communication controller, executes the function of processing logic and storing the configuration



#### 1. Parameters - CLU WiFi

Properties: Uptime	Working time since last reset (in seconds)
ClientReportInterval	Reporting period for changes in properties
Date	Returns the current date
Time	
LocalTime	Returns the current time (hh:mm:ss)  Returns the current time
TimeZone	Local time zone
UnixTime	Returns the current Unix time
FirmwareVersion	WiFi module firmware version
UseCloud	Specifies whether WiFi module connects to the Cloud
CloudConnection	Specifies whether WiFi module is connected to the Cloud
NTPTimeout	NTP Timeout
UseNTP	Specifies whether WiFi module uses NTP
PrimaryDNS	Preferred DNS server
SecondaryDNS	Alternate (secondary) DNS server
RSSI	Received signal strength indicator
Methods:	
SetDateTime	Sets date and time
StartConsole	Starts Lua console
StartConsoleOnReboot	Starts Lua console on next boot
FactoryReset	Factory reset of module
SetClientReportInterval	Sets the reporting period for changes in properties
SetPrimaryDNS	Sets the PrimaryDNS property
SetSecondaryDNS	Sets the SecondaryDNS property
Events:	
Onlnit	Event occurs once during the device initialization
Virtual Objects:	
Timer	Timer operating in Interval or CountDown modes. Detailed interface description in the Grenton 2.0 System Manual - chapter XIII.5 Virtual Object - Timer

#### 2. Parameters - ROLLER SHUTTER

Properties:		
State	The output state (0 - no movement, 1 - moving upwards, 2 - moving downwards)	
MaxTime	Default Time parameter value. O if not specified	
Up	State of Up relay (moving upwards)	
Down	State of Down relay (moving downwards)	
Methods:		
MoveUp	Roller shutter Up or Stop if movement. Parameter Time specifies movement time (0 - the movement time equals MaxTime)	
MoveDown	Roller shutter Down or Stop if movement. Parameter Time specifies movement time (0 - the movement time equals MaxTime)	
Start	Roller shutter Up if the preceding movement was Down or roller shutter Down if the preced- ing movement was UP	
Stop	Stop if moving	
Hold	Blind movement hold	
HoldUp	Hold always Up	
HoldDown	Hold always Down	
Events:		
OnStateChange	Occurs when a change in the roller shutter state takes place	
OnUp	Occurs when changing the Stop state to the Up state	
OnDown	Occurs when changing the Stop state to the Down state	
OnStart	Occurs when the blind has been turned on	
OnStop	Occurs when the blind has stopped	

#### 3. Parameters - DIN (digital input)

Properties:	
Value	Returns the input state as 0 or 1
Inertion	Specifies the entry time constant. The value step is 20ms
HoldDelay	Time in milliseconds after which, when pressing and holding a button, the OnHold event oc-
noidbelay	CUTS
HoldInterval	Cyclical interval in milliseconds after which, when pressing and holding a button, the OnHold
i loldii itel val	event occurs
Coupling	Returns the percentage of coupling between wires. Less than 30%, there is little coupling
coapiirig	between wires when input physically Off
Methods:	
SetInertion	Sets the input inertion time
SetHoldDelay	Sets HoldDelay property
SetHoldInterval	Sets HoldInterval property
Events:	
OnValueChange	Occurs when a change in the input state takes place (regardless of the value)
OnSwitchOn	Occurs when the high state is set at the input
OnSwitchOff	Occurs when the low state is set at the input
OnShortPress	Occurs after pressing the button for 500 - 2000 ms
OnLongPress	Occurs after pressing the button for at least 2000 ms
OnHold	Occurs for the first time after HoldDelay time and then cyclically every HoldInterval value
OnClick	Occurs after pressing the button for less than 500 ms

## 4. Technical data

Device power supply	110-230 V <sub>ac</sub> 50/60 Hz
Maximum power consumption	1,4 W
Standby power consumption	1,0 W
Rated load voltage	230 V <sub>ac</sub> or 24 V <sub>dc</sub>
Rated channel load AC3	1,5 A / 230 V <sub>ac</sub>
Rated channel load DC1	1 A / 24 V <sub>dc</sub>
Maximal breaking capacity AC3	350 VA
Maximum wire cross section	2,5 mm <sup>2</sup>
WiFi frequency band	2,4 GHz
Weight	40 g
Fixing	flush mounted
Dimensions (H/W/D)	19/45/36 mm
Operating temperature range	0 to +45 °C

### 5. Wiring diagram



- The device without a target configuration loaded via Object Manager tool, has the minimal embedded configuration. The inputs are connected to the outputs, which allows for local blind control.
- The maximum recommended length of cables connected to the AC IN1 or AC IN2 inputs is 25 m. This value results from the capacitive-inductive coupling of a typical conductor between its lines. Additionally, the Coupling property was introduced in the DIN object that reveals the real coupling. Too much coupling can cause false input state detection.

N	"Neutral" signal
L	"Line" signal
AC IN1-U	input no.1 marked as UP signal (230 V <sub>ac</sub> )
AC IN2-D	input no.2 marked as DOWN signal (230 V <sub>ac</sub> )
M1-U	output M1 marked as UP (potential free)
COM	common signal for M1 and M2
M2-D	output M2 marked as DOWN (potential free)

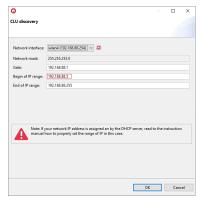
#### 6. Wireless communication configuration

The brand new device on power up starts with the AP (access point) SSID: CLUS4xxxxxxx [reset] with the factory password (PIN) "00000000". After connection setup with the AP please connect to the device http server using web browser and http://192.168.4.1 link. Next please set up a PIN and a Wiffi network parameters, the Wiffi network parameters, the Wiffi network and the AP solic CLUS4xxxxxxx after 2 minutes of unsuccess-and http://192.168.4.1 link. Next please set up a PIN and a Wiffi network parameters, the Wiffi network and the Roller Shutter Wiffi only keeps trying to connect to the configured Wiffi network.



#### 7. Device configuration in the Grenton System

After connecting the device to the WiFi network, please process configuration using the Object Manager tool. Select the CLU script articles are as in the case of the CLU script action in the upper left corner. Then set the "Beginning of IP address" not less than xxxx5. After discovering the device,



### 8. Restoring Factory Settings

Restoring Factory Settings activates sequence of 5 pulses ended factory reset can be done is from 5 to 30 seconds from the power with 2-second break given to one of the inputs. Duration of the 5 on. pulses must be less than 5 seconds. The time window while the

## 9. Warnings and cautionary statements



Before proceeding with the assembly, read the
installation schematics and full instructions available at
www.grenton.com. Failure to follow the guidelines contained
in the instructions and other requirements of due care valid as a
result of the nature of the equipment (device) may be dangerous
to life / health, damage the device or installation to which it is
connected, damage other property or violate other applicable

regulations. The manufacturer of the device, Grenton Sp. z o. o. does not bear any responsibility for the damage (property and non-property related) resulting from the assembly and / or use of non-property related) resulting from the assembly and / or use of the equipment not in accordance with the instructions and / or due diligence in handling the equipment (device).

• Device power supply, permissible load or other characteristic parameters have to be in accordance with the device specification, described in particular in the "Technical data" section.

• The product is not intended for children and animals.

• If you have technical questions or comments about the device operation, contact Grenton Technical Support.

- Answers to frequently asked questions can be found at:
- www.support.grenton.pl



- . Danger to life caused by electric current!
- The components of the installation (individual devices) are designed to work in a home electrical installation or directly in its

vicinity. Incorrect connection or use may cause a fire or electric

- All work related to the installation of the device, in particular works involving interference in the electrical installation, may be performed only by a person with appropriate qualifications or
- When installing the device, make sure that the power supply voltage is disconnected from the circuit in which the device is connected or near which the assembly takes place.

## 10. CE marking

The manufacturer declares that the device is in full compliance with the requirements of EU legislation that includes the direc-tives of a new approach appropriate for this equipment. In partic-ular, Grenton Sp. 2.o. of eclares that the device fulfills the require-ments on safety, specified by law, and that it conforms to the na-

tional regulations that implement the appropriate directives: The totial egulaturis that implement in eappopurate anictives. The Radio Equipment Directive (RED - 2014/53/UE), the Low Voltage Directive (LVD 2014/35/UE) and the Directive on the limitation of the use of specific substances in electrical and electronic equipment (RoHS II - 2011/65/UE).



# 11. Warranty

Warranty available at: www.grenton.com/warranty

# 12. Manufacturer contact details

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