

INSTALLATION INSTRUCTIONS

V.1.0 July 2023



SET UP

Refer to the Instructions for the required Wiring configuration

Do not connect the relay contacts until set up has been completed.

Once the unit has been energised, parameters can be configured to specific values or left as default settings.





MAIN SCREEN





Guardian					
Settings					
🗘 General	•				
Y Electrical network	•				
Alarm and event settings	•				
Network settings	►				
	•				
👬 Modbus RTU	•				
C Reset	•				
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SETTINGS SCREEN



Guardian	
Settings	
🗘 General	•
Υ Electrical network	•
Alarm and event settings	•
	•
Cloud	•
📥 Modbus RTU	•
C Reset	•
	k

	Guardian					
<	Electrical network settings					
	Electrical netwo	rk configu V 3P4 ✓	ure W 3P3W			
	Nominal network voltage Nominal line voltage	300 172.5	Volts Volts			



ELECTRICAL NETWORK SETTINGS



- Select system electrical network choice.
- Selecting an electrical network configuration will change the main screen display information.
- 1P2W will show L1 to Neutral only.
- 1P2W + E will show L1 to Neutral and Earth to Neutral.
- 1P3W will show L1 to N, L2 to N, N to VN and E to VN.
- 3P4W will show L1 to N, L2 to N, L3 to N N to VN and Earth to VN.
- 3P3W will show L1 to VN, L2 to VN, L3 to VN and Earth to VN.



ELECTRICAL NETWORK SETTINGS



- Select the nominal network voltage to edit the value.
- If number > 480 VAC "Out of range" will be displayed.
- Press cancel, to not make a change.
- Press enter to confirm change.
- The nominal line voltage will then be updated.
- Events related to the nominal network voltage, will update.



ALARMS AND EVENTS SETTINGS

Guardian	
Settings	
🗘 General	► I
Y Electrical network	•
🈩 Alarm and event settings	•
중 Network settings	•
📥 Cloud	•
击 Modbus RTU	•
C Reset	•
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Guardian				
Alarms & event settings				
Highest Priority		Lowest Priority		
Event Very bigh peutral voltage	5 7 8 9 Trigger Value	Unit Source		
Action 1 Gauge bar red 'N	Action 2 Warning	Action 3 Relay trigger		
ieu n				

- 12 event settings.
- Select the number to access the event of interest.
- The event with highest priority will trigger over lower priority.



CONFIGURABLE EVENTS

Event 2 - High neutral voltage (20v) Range from 1-65v N-VN No Relay/Relay Trigger

Event 4 - High earth voltage (20v) Range from 1-60v N-VN No Relay/Relay Trigger

Event 8 - Very high line voltage (115%) Range from 110-115% Relay Trigger

Event 9 - Very low line voltage (85%) Range from 85-90% Relay Trigger

Event 10 - Very high line voltage (110%) Range from 105-110% No Relay Trigger

Event 11 - Very low line voltage (90%) Range from 85-90% No Relay Trigger

Event 12 - Frequency out of range (0.5hz) Range from 0-19.9hz No Relay/Relay Trigger

Please note, some events may not appear depending on your supply electrical network.



ALARMS AND EVENTS SETTINGS





- Select the boxed value to edit the threshold.
- The threshold has been limited to 5% change.
- Press the "X" button to close the keypad.
- Events 8, 9, 10 and 11 are effected by the electrical network nominal voltage.

When all the configurable values have been checked or amended from default, connect the relays.



EVENTS EXPLANATION

- Event 1 Very high neutral voltage (Relay Trigger)
- Event 2 High neutral voltage (Range from 1-65v N-VN No Relay/Relay Trigger)
- Event 3 Very high earth voltage (No Relay/ Relay Trigger)
- Event 4 High earth voltage (Range from 1-60v N-VN Relay Trigger)
- Event 5 Voltage overline range (Relay Trigger)
- Event 6 Loss of Phase (Relay Trigger)
- Event 7 Frequency out of range (Relay Trigger)
- Event 8 Very high line voltage (Range from 110-115% Relay Trigger)
- Event 9 Very low line voltage (Range from 85-90% Relay Trigger)
- Event 10 Very high line voltage (Range from 105-110% No Relay Trigger)
- Event 11 Very low line voltage (Range from 85-90% No Relay Trigger)
- Event 12 Frequency out of range (Range from 0-19.9hz No Relay/Relay Trigger)

Please note, some events may not appear depending on your supply electrical network.



EVENTS SCREEN EXAMPLE



Events that have been triggered

Relay 1 status:	Relay 2 status:
<u>Event</u>	Trigger Value Unit Source
C	Clear
$\bigcirc \bigcirc $	$\begin{array}{c c} \bigcirc \bigcirc$
	~
Events can be cleare	d here

FAULT CONDITIONS



Once a detected fault has cleared, the Guardian will wait a further 3 minutes before closing both relays.





DISPLAY SETTINGS



- Backlight timeout switch will enable or disable access to the time duration.
- Drag the scroll bars to change the settings.



Claiming a device

Create an account on the sign up page of the cloud.

<u>cloud.matt-e.com/login</u> is the URL, click on the sign up button on this page.

Enter your information to create an account in the relative fields to sign up.

Verify your email address from your chosen email platform.





MATT-E CLOUD HUB





CLAIM THE DEVICE

To claim a device, click on the + icon in the device list. You will be asked to enter a serial number and a model.

The model will always be 'Guardian' (case sensitive)

The serial numbers can be taken from the device (on the device, go to settings > general settings)

Serial Number *	
Model *	
	ADD DEVICE
	Close

	Guardian					
<	General settings					
	Device name Model name Serial number	G0000000000000000000000000000000000000				
	Firmware version Bootloader version UX revision MAC address Manufacture date	006_001_04 CXXXXXXXXXXXXXXXX 1.0.0 C0EAC3CFFC1B 2023-06-28 15:35:00				

Click "Add Device"



VIEW DEVICES





DEVICE HOME SCREEN





EVENTS LOG



matt:e

suarulari vu.z



DOWNLOAD EVENTS







SET UP USER DETAILS





DEVICE NOTIFICATION SET UP

To receive notification of the events via text and/or email enter your details in the Device Settings

Ensure to select the "Enable" box to the right.

For the text alerts ensure to use the country code. +44 (UK) for example.

Guardian	Device Settings		×	4 (+	
Latitus Enabled Name 1 Latitus ALARM YES Guardian 1 24 ON YES Guardian 2 24	bet U: Device Name Guardian 1 V/04 guardian	Serial Number Guardian 1	N-VN VOLTA 0.78 volts	AGE	Click on the cog to enter the device settings page. Here you can enter the
ON YES Guardian 3 24	Notifications Phote number including country code Email 1 Email 2 Imail 2	Enable Text Notifications Enable Email 1 Enable Email 2	Contraction of the second	st 10 min 🗈 🚼	the event that a fault is detected.
1-3of3	<		Close	Guardian v0.2	



EVENT NOTIFICATIONS

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Apps

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