

LET'S TALK ABC MECCALTEAPP

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UNIQUE

UNIQUE COMPANY. UNIQUE PEOPLE.

meccalte

Scan Serial

Connect via Wi-Fi

Work offline

H

POWER FROM WITHIN





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DOWNLOAD THE APP



Getting Started: Downloading the App

Welcome to our guide, where we'll walk you through the process of downloading and setting up the app you'll need for your device. The first step is to download the app by scanning the QR codes below that corresponds to your specific device.

In the following pages, you will find detailed instructions and representations of the app, helping you get started quickly and effortlessly.

PC





Smartphone/Tablet





Smartphone/Tablet





CONNECTIONS 'M2K 'M2K" 'M3K 'M3K" 'M3K



* The USB2MxK device can be used in the same way to directly connect a PC with USB to the MxK via the JST connector.

CONNECTIONS 'M3K^{SHD}



INTRODUCTION

B. DASHBOARD

This is the main control screen of your regulator. From here, you have real-time visual monitoring of the overall regulation status.

A. HOMEPAGE

Initial app startup screen. From here, you can either connect to the board or directly scan your alternator's barcode.

D. STATUS CONNECTION

The bar indicates whether you are successfully connected to the controller with your device, displaying 'Connected' if connected, or 'Disconnected' if not.

F. GRAPHIC

Here, the real-time graph of the just-established connection will be displayed, showing the trends of the three active characteristics: Voltage, Hertz, and Excitation.



C. MENU

This button opens the sidebar of the main app menu, allowing access to the Dashboard, regulator Settings, Archive of recorded logs, active Alarms and their logs and statistics, Parameters list with descriptions, and the Info page.

E. TIMER

This timer displays the duration of the connection session with the regulator, which will then be saved in the Archive.

G. SWITCHES

The three characteristics visible on the real-time graph can be toggled on or off for display.

1. HOMEPAGE



Here is the screen that will appear after opening the Mecc Alte app. There are two buttons: Scan Serial for scanning the alternator's S/N barcode, Connect via Wi-Fi to link with the MxK controller through the MxKonnect interface, and finally, Work offline to access the dashboard without a connection.



After carefully reading the disclaimer, click Proceed to continue.



Select the appropriate sensing by checking the type of controller you have and the connection made to it.

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After a brief loading period, the control dashboard page will open.



2. DASHBOARD



"In the Dashboard page, briefly introduced in the Introduction chapter, there are some very important sections that will be explained below.



The 'Status' button immediately displays which settings and configurations are active on the controller, providing an overview.



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The 'Active Alarms' button shows in real-time if there are active alarms reported by the controller.



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Dashboard 00:00:00 ▲ 4 = ŵ VOLT HERTZ EXCITATION

GO TO **3. MENU** PAGE 10

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The 'Communications' button displays the status of the connection between the device and the controller.

The 'Dashboard' button allows you to quickly return to the initial screen.

3. MENU



Opening the sidebar menu using the corresponding button will appear these menu items as shown in the image above.

Alarm History

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SYSTEM OK

(CS) Checksum EEprom

[OV] Over voltage (@ uN) [UV] Under voltage (@ ωN)

(SOV) Supply Over Voltage [OC] Phase Over current (Phase U)

[US] Under Speed (Start Up V/f)

[OTR] Regulator Over Temperature (85°C)

C. ALARMS

Here you can see in real-time if there are

active alarms, download the log of various

alarms triggered over time, and access

statistics related to the different states of

Maximum Temperatur

[OEXC] Over Excitation (Excitation Over

(UEXC) Under Excitation (Low Excitation Current)

[SC] Short circuit

[OS] Over Speed

[LTR] Regulator

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State Alarm

			_	
=	Settings			
00:01:53	Ŷ	۰	=	٠
BASE		AD	VANCEE	þ
VOLTAGE				~
FREQUENCY				~
LOAD ACCEP	PTANCE MODULE	SYSTE	M	~
SOFT START				~
OVER EXCIT/	ATION PROTECTION	ON		~
DROOP / PAI	RALLEL			~
STABILITY				~
SAVE / LOAD	SETTINGS			~
V/F Slope				~
AUTOTUNIN	G			~

A. SETTINGS

The settings menu is a crucial part of the Mecc Alte app for controlling the regulation. The settings are divided into BASE and ADVANCED for experienced users.

GO TO PAGE 11

≡ He	Ip Parameters
00:05:57	중 ≜ ≡ ♠
Relative Address	Description
0	Firmware release
2	Software Configuration
4	Serial Number (32 bit)
6	Calibration sensing channel 1 (phase U)
8	Calibration sensing channel 2 (phase V)
10	Calibration sensing channel 3 (phase W)
12	Calibration supply channel
14	Calibration Line channel
16	Free for additional board referred
18	Free for additional board referred
20	Sensing channel (phase U) SOGI Gain
22	FLL SOGI Gain

D. HELP PARAMETERS

Here, you can find a list of all the parameters of the MxK controllers along with their respective descriptions.



B. ARCHIVE

The Archive menu allows you to view the stored sessions of accesses and adjustments made, with the option to export them.

GO TO PAGE 14

	Info	
00:06:01	Ŷ	♦ = ♠
ABOUT US		SUPPORT
About Us		
In 1947, our founde workshop for electr global alternator su producing over 1,4 globe.	er Mario Carra ic motors in It pplier with ov 100 alternator	ro, launched a repa aly. Today, we are er 1,200 employee s a day across th
As an alternator sup experience in resear and development taking place in Italy with high market ca capacity, we offer a service to our custor	plier, we have cch, design, low capabilities. ¹ ; the UK, India pabilities and a fast and reliabl mers all over th	proven expertise an v-cost manufacturin With manufacturin and China, couple powerful worldwic le alternator solution e world.
Explore our Website	for more infor	mation:
- Website		
- Products		
- Downloads		
- EAQ		
- Contacts		
_		_

Here, you can find information about Mecc Alte, and in the Support section, you can search or scan an S/N to retrieve all the information about that alternator.

A. SETTINGS

BASE



The settings page is divided into BASE and ADVANCED settings. In the $\ensuremath{\mathsf{BASE}}$ section, you will find the main settings with their corresponding adjustment buttons.

ADVANCED





Once the panel is opened and the respective setting is correctly adjusted, press the 'SAVE' button to confirm the changes made.

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to be entered: Password: meccalte

ATTENTION!

related to the use of this section of the app.



This distinction of settings allows more qualified personnel to intervene in a more detailed manner through the ADVANCED section

SETTINGS BASE DETAIL

GO TO PAGE 12

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A.1 BASE SETTING



VOLTAGE

Voltage potentiometer adjustment. To disconnect the trimmer, click on the selector and adjust using the dedicated sliding bar.

Refer to the MxK manual for proper configuration.

LOAD ACCEPTANCE MODULE SYSTEM

Selector to enable or disable the Load Acceptance

Module System.

Refer to the MxK manual for proper configuration.

LOAD ACCEPTANCE MODULE SYSTEM

Activate LAMs



STABILITY

STAB potentiometer adjustment for stability. To disconnect the trimmer, click on the selector and adjust using the dedicated sliding bar.

Refer to the MxK manual for proper configuration.

SOFT START

Sliding bar to adjust the Soft Start.

Refer to the MxK manual for proper configuration.

SOFT START

SOFT START INTENSITY



FREQUENCY

Frequency setting. To disable hardware-based frequency selection, click on the selector and choose the desired frequency.

Refer to the MxK manual for proper configuration.



OVER EXCITATION PROTECTION

AMP potentiometer adjustment. To disconnect the trimmer, click on the selector and adjust using the dedicated sliding bar.

Refer to the MxK manual for proper configuration.

DROOP / PARALLEL	^
Disconnect hardware trimmer?	-
SET DROOP	4.0

DROOP / PARALLEL

DROOP potentiometer adjustment. To disconnect the trimmer, click on the selector and adjust using the dedicated sliding bar.

Refer to the MxK manual for proper configuration.



V/F SLOPE

This setting allows you to properly configure the voltage-frequency ramp using an interactive graph.

Refer to the MxK manual for proper configuration.



AUTOTUNING

The autotuning setting allows you to choose whether to use autotuning through the onboard dip switches or through the app, and whether to set it using the STAB for stability or use the preset autotuning.

Refer to the MxK manual for proper configuration.



SAVE / LOAD SETTINGS

The changes made in the controller settings can be exported to a file and can also be reloaded or loaded with new configurations. This allows you to save a backup of the correct settings or load configurations provided by Mecc Alte.

A.2 ADVANCED SETTING



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B. ARCHIVE

=	Archive	
00:05:31	रु 🌲	≡ ♠
Choose log		
〒 Filters ➤	•• • • • • • •	eet éltes e
MeccAlte-8 - 25	5 / Aug / 2023 3:59 PM	>
MeccAlte-54 - 2	2 / Aug / 2023 10:23 AN	4 ×
MeccAlte-54 - 0	05 / May / 2023 10:43 AM	4 N
MeccAlte-54 - 0	02 / May / 2023 9:58 AM	>
MeccAlte-54 - 1	.6 / Mar / 2023 11:09 AM	· >
MeccAlte-54 - 1	.6 / Mar / 2023 11:08 AM	· >
MeccAlte-54 - 1	14 / Mar / 2023 2:17 PM	>
MeccAlte-54 - 1	4 / Mar / 2023 2:04 PM	>
MeccAlte-54 - 1	3 / Mar / 2023 11:02 AM	• >

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The Archive section of the app allows you to view all past sessions made with the control of the MxK regulator through the Mecc Alte app. Here, you can select the session of interest or apply filters to facilitate the search for a specific session.



Clicking the 'Filters' button will open a window where you can enter the name and number of the regulator to facilitate the search.



By clicking on 'Start Date' and 'End Date,' a convenient calendar will open for selecting a specific date range.



When clicking on the desired session, a panel very similar to the Dashboard screen will open, displaying the recording made with the three parameters: Volt, Hertz, and Excitation.



Since everything is saved within the section, the buttons for the three recorded units can be turned on or off at will.





C. ALARMS



The Alarms section has 3 sub-menus. The first of these sub-menus displays the currently active alarms in real-time (which are also visible through the bell icon at the top of the app). From here, you can see which alarms are currently active.

	Δ	larm Hist	ory	
0:04:0	07	¢	↓ ² ≔	ŧ
Real	Time	Log	Stat	tistics
Alarr	DO ms states	WNLOAD AL	ARMS LOG	
01#	OV + UEXC			\rightarrow
02#	ov			\rightarrow
03#	OV + UEXC			\rightarrow
04#	OV			\rightarrow
05#	System OK			→
06#	System OK			\rightarrow
07#	System OK			\rightarrow
08#	System OK			\rightarrow
	System OK			\rightarrow
09#				
09# 10#	System OK			\rightarrow

The Log section allows you to view all alarm states that have occurred over time. The 'Download Alarms Log' button allows you to download all these events in a format that can be shared, even with Mecc Alte.

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The Active Alarms screen can be accessed from any point in the app by clicking on the bell icon with a badge indicating how many alarms are active at that moment.

				۰	A	
3/#	DEXC +	UEXC			7	
38#	OEXC				\rightarrow	
39#	System	ок			<i>→</i>	
Over v	tion (se	ec): 5 ωN)				
Over v Over E Under	tion (se oltage (@ xcitation (Excitation	e c): 5 ωN) Excitatio (Low Ex	n Over C	Current) Current)	→	l
Over vi Over E Under 44# 45#	tion (se oltage (@ xcitation (Excitation OEXC UV + OE	wN) Excitatio (Low Ex	n Over C	Current) Current)	→ →	
Over vi Over E Under 44# 45# 46#	tion (se oltage (@ xcitation (Excitation OEXC UV + OE OEXC	ec): 5 ωN) Excitatio (Low Ex	n Over C	Current) Current)	\rightarrow \rightarrow \rightarrow	
Over vi Over E Under 44# 45# 46# 47#	tion (se oltage (@ xcitation () Excitation OEXC UV + OE OEXC OEXC +	ec): 5 ωN) Excitatio (Low Ex XC UEXC	n Over C	Current)	\rightarrow \rightarrow \rightarrow \rightarrow	
Over vi Over E Under 44# 45# 46# 47# 48#	tion (set oltage (@ xcitation (Excitation OEXC UV + OE OEXC OEXC + OV + OE	ec): 5 ωN) Excitatio (Low Ex exc UEXC UEXC Exc + UE	n Over C citation	Current) Current)	\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow	
Over vi Over Vi Over E Under 44# 45# 46# 46# 47# 48# 49#	tion (set oltage (@ xcitation (Excitation OEXC UV + OE OEXC OEXC + OV + OE OV + OE	ec): 5 ωN) Excitatio (Low Ex exc UEXC EXC + UE	n Over C citation	Current) Current)	\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow	

By clicking on a single event, you can see the event's duration and how many events occurred simultaneously (an example is visible above).



On the other hand, the Statistics section displays how many times and for how long a specific alarm has occurred on the specific regulator you are monitoring. The 'Download Alarms Statistics' button allows you to download all these events in a shareable format, which can also be shared with Mecc Alte.



Clicking on the alarm allows you to see how many times it has occurred since the regulator was first powered on and its total duration (an example is visible above).





The Archive section of the app allows you to view all past sessions made with the control of the MxK regulator through the Mecc Alte app. Here, you can select the session of interest or apply filters to facilitate the search for a specific session.



When you click on 'Support,' a page will open that allows you to view all the characteristics of that machine using the alternator's Serial Number. You can search by manually entering the Serial Number or by clicking on the camera symbol to open the barcode scanner on the machine's label.

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Once you have entered or scanned the serial number and press 'Search,' a web page will open, displaying all the characteristics.

Please note that an internet connection is required to use this service, which is not available when connected to the <u>MxKonnect device</u>.

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All the screens presented in this guide for the Mecc Alte app depict the mobile device view. However, each screen displayed is exactly the same as what you will find in the PC app, only wider and in landscape mode. It can be considered the same for use on the PC app. Below are some mobile and PC comparison images.



-	Settings						
20-00-87 BASE	+ 4 ⁴ = 4		mecc	alte			Settings
VOUTAGE		*.	Beard Heochite-S			001011 Manual Annual	984011 Name Andre
PRODUDINCY		~	N DADHBOAR	•		8402	
LOAD ACCEPTANCE MODULE SYSTEM			A SETTINGS	>			П. т.
OVER EXCRAPSION PROTECTION		<u> </u>	ANCHAE	*		57 vouver	
DROOP / PRIMILEL			 ALARKS 2 METERAL 	,			
STABLITY		v.	 NO 				
Leve / LOAD SETTINGS		×.				<u>B</u> 2	<u>B</u> r 22
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AUTOTUNING			ana an				
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		vocháde	с С .		STUBURY		SAVE / LOAD SETTINGS
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		SOFT START		_			
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		STABILITY	~				
		SAVE / UDAD SETTINGS	~				
		V/F Stope	ай (с. 1996) С				
		AUTOTUNING	~				

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LISTED

MASPA: 03.2025 | V01.1