

MELER APP

HOW TO INSTALL AND USE IT

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INTRODUCTION

All the units of the new Meler platform can be connected to a computer using specific software to perform the following functions:

- Update the machine software
- Save a backup of your configuration data
- Restore the backup of configuration data
- Download the datalogger which is the operating data of the last weeks

To program a device using the Meler APP, you must have:

- Computer. In order to work properly with this software the OS must be Windows 7 or higher
- * .Hex program to be installed on the machine
- USB to MicroUSB cable like most of those used to charge an Android mobile



USB to MicroUSB cable



DOWNLOAD AND INSTALLATION IN THE LAPTOP

The software necessary to carry out these functions can be downloaded from the FOCKE MELER website in the "Related documentation" section of each product.

A compressed .zip file will be downloaded where the "Meler APP" application installer is located.

We follow the installer instructions by clicking Next in all the windows:



Programming assistant screen. Press next



DOWNLOAD AND INSTALLATION IN THE LAPTOP

提 Meler APP	-		×		i Meler APP —		×
Select Installation Folder					Confirm Installation		5
The installer will install Meler APP to the following folder.					The installer is ready to install Meler APP on your computer.		
To install in this folder, click "Next". To install to a different folder, enter it b	elow or clic	:k ''Brov	vse".		Click "Next" to start the installation.		
Eolder: C:\Meler\ Install Meler APP for yourself, or for anyone who uses this computer:		rowse sk Cost.		•			
⊖ Everyone							
Just me							
< Back Next >		Cano	el]	< Back Next >	Car	ncel

Programming assistant screen. Press next

Programming assistant screen. Press next



DOWNLOAD AND INSTALLATION IN THE LAPTOP

妃 Meler APP	– 🗆 X		婦 Meler APP -		Х
Installing Meler APP	5		Installation Complete		
Meler APP is being installed.			Meler APP has been successfully installed.		
Please wait			Click "Close" to exit.		
		•	Please use Windows Update to check for any critical updates to the .NET Framew	ork.	
< Back Next >	Cancel		< Back Close	Cano	cel

Programming assistant screen. Press next

Programming assistant screen. Press close

At the end of the installation, the following icon will appear on the desktop:





CONNECTING USB CABLE TO THE UNIT

First make sure the unit is turned off. Open the front door and connect the USB cable to the HMI card.

Note: Do not connect the other end of the cable to the laptop yet.



HMI card. The blue arrow indicates where the MicroUSB connector is placed



Detail of the microUSB connection with the HMI card



POWER ON THE UNIT

Once the internal USB connection is finished, we can connect the unit to the power supply and turn it on using the power On/Off switch until the unit is ready to work.



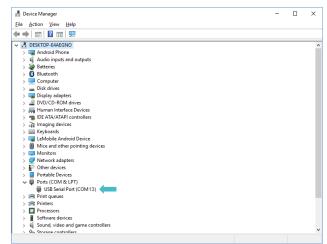


CONNECTING USB CABLE TO THE LAPTOP

With the unit powered up and started, the other end of the USB cable must be connected to the computer, waiting for the recognition of the device and installing the new COM port.

To know which COM port has been used, access the "Device Manager" and check which is the new port created after the cable has been connected.

Disconnect and connect the USB cable to the computer to check which port disappears and appears. That will be the COM port that we will have to use later.



Windows device manager showing the COM port installed when connecting the USB cable



Run the "Meler APP" application:

- 1. Select the COM port.
- 2. Press the "Connect" button. If the computer is able to establish communication with the unit, the status Connected will be displayed.
- 3. Press "Jump to Boot". If the unit successfully enters its Boot mode, the type of machine connected and the versions of the unit will be displayed. It will show the Boot screen.

Focke Meler Software Update	– 🗆 X
Connection	
Select COM port	meler 💋
COM13 · Disconnect Jump t	
- Connected - Unkown	
App Update	
нмі	Browse HMI File Update
юс	browse Hwi File Opdate
	Browse IOC File Update
TC	Browse TC File Update
	browse iC nie update
Configurations	
Path to save Configuration file:	
Path from load Configuration file:	Save Delete
rath from load Configuration file:	Browse
	0101126 2000
Datalogger	
Path to save Datalogger file:	
Path to save Datalogger file:	Save Meler APP mo



To update the unit cards, it is necessary to have the ".hex" files of the new version to be loaded. The software files will have the following structure in the name CARD_REFERENCE_DESCRIPTION_VERSION.hex

For example:

S02002101_HMI_UNIFIED_PISTON_vX.x.xxx.hex

The correct reference and the highest version available must be loaded on each card. The latest versions published on the Meler website can be obtained by downloading the SW folder of each device containing the "Meler APP" application and the most updated software.



- HMI card upgrading
- 1. Select the file to load for the HMI card by pressing "Browse HMI File". The file selected is shown on the screen.

💹 Focke Meler Software Update	- 0 X
Connection	
Select COM port	meler 🖊
COM13 v Disconnect Jump to App	
- Connected - Micron Engrane [sv:1.1.0 - hv:4.0]	

- 2. Press the "Update" button.
- 3. A charging process will start which takes several minutes.
- 4. At the end of the process, a complete update notice will appear.

		App Update X
		Device programmed
Processing 57 %	Cancel	Aceptar

Charging process and final warning



- IOC and TC card upgrading
- 1. Select the file to load for each card by pressing "Browse IOC File" or "Browse TC File".
- 2. Select "Card Number" (see number assignment table).

НМІ		Browse HMI File	Undete
IOC		browse Hivii File	Update
C:\microchip\harmony\v2_05_01\apps\PDG0139_GIT	MelterEngrane IO	Browse IOC File	Update
TC	8		
	9	Browse TC File	Update
	10		
	11		
	12		
Configurations	13		
Path to save Configuration file:	14		
	15	Save	Delete
Path from load Configuration file:			
		Browse	Load

Card number selection

- 3. Press the "Update" button.
- 4. A charging process will start which takes several minutes.
- 5. At the end of the process, a complete update notice will appear.



- IOC and TC card upgrading

UNIT	IO PUMPING	IO FIRING	IO MANEUVERING	тс	TC2
STARBI		1			
PISTON PUMP				1	
GEAR PUMP	8			1	
PISTON+STARBI		9		1	
GEAR+STARBI	8	9		1	
PS20 NS	8		10	1	2

Card number assignment table



Example: Updating HMI, IO and TC cards of a Micron + gear pump

1. Load the HMI ".hex" file, which will have a form name as

SXXXXXX_HMI_UNIFIED_MICRON + ENGRANE_vX.X.xxx.hex

into the HMI and press the "Update" button.

2. In the IOC, select card No. 8 in the drop-down menu, load the ".hex" file specific to the IO whose name will be as follows:

SXXXXXX_IO_PUMPING_MICRON + ENGRANE_vX.X.xxx.hex

and press the button "Update ".

3. Finally, select card No. 1 in the TC card drop-down menu, load the file

SXXXXXX_TC_ MICRON + ENGRANE_vX.X.xxx.hex

and press the "Update" button.

Note: DON'T DISCONNECT THE POWER OF THE UNIT WHILE THE PROCCESS IS ONGOING.



4. When software loading of all cards is finished, press the button "Jump to App".

💋 Focke Meler Software Update	×
Connection	
Select COM port COM13 Disconnect Jump to App Connected - Micron Engrane [sv:1.1.0 - hv:4.0]	meler 📈
- Connected - Micron Engrane [sv:1, 1.0 - nv:4.0]	"I was to appr" button to react the weit

"Jump to app" button to reset the unit"

After that, the computer screen turns off. Finally, we will restart the unit by switching it off from the power On/Off switch.

It is important to make sure that the version loaded is the one you wanted by clicking on the time display on the HOME screen of the unit and checking the Software version section.



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Checking the loaded version



CONFIGURATION

Sometimes it is necessary to save the configuration of a device (programmed products, temperature settings, calendars, inputs/outputs, ...) to perform a reset without losing data or to transfer this data to a twin device.

For that purpose, Meler APP has a "Configurations" section that allows you to save the configuration in a file and load it later when necessary.

Configurations		
Path to save Configuration file:		
	Save	Delete
Path from load Configuration file:		
	Browse	Load

Save and load configuration section



CONFIGURATION

- Save configuration
- 1. Select COM port.
- 2. Push "Connect" button. If the computer is able to establish communication with the unit, the status Connected will be displayed.
- 3. Push "Jump to Boot" button.
- 4. Push "Save" button. A window is opened where you can choose the path where the configuration file will be saved and the file name. Once selected, the saving process begins.
- 5. A pop-up appears with the progress and finally a notice of saving completed.

Once the process is finished, the ".hex" file is obtained with the configuration data in the selected path.



CONFIGURATION

Load configuration

Now it is possible to load this configuration file on any unit or on the same one after doing a factory reset.

- 1. Select COM port.
- 2. Push "Connect" button. If the computer is able to establish communication with the unit, the status Connected will be displayed.
- 3. Push "Jump to Boot" button.
- 4. Click on the "Browse" button. A pop-up will open to choose the file that contains the configuration to be loaded. Select the desired ".hex" file.
- 5. Click on "Load" to start the loading process.
- 6. When you have finished, click on "Jump to App" and turn off the computer with the power switch. When starting it again, check that the configuration is the one you wanted to load.

Note: the "Delete" button that appears in red is used to delete the configuration that is loaded in the unit. It has the same function as performing a default reset from the screen.

If it is pressed and the settings have not been saved using the above procedure, they will be lost forever.



DATALOGGER

The third option offered by the Meler APP is to download the datalogger with the unit's production data.

Note: This option is only for Micron + devices.

- 1. Select COM port.
- 2. Push "Connect" button. If the computer is able to establish communication with the unit, the status Connected will be displayed.
- 3. Push "Jump to Boot" button.
- 4. Press the "Save" button to open a window where you can choose the path to save the file.

Datalogger		
Path to save Datalogger file:	_	
	Save	Delete

Datalogger section

Note: the "Delete" button that appears in red is used to delete Datalogger data of the unit.

If it is pressed and the settings have not been saved using the above procedure, they will be lost forever.



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