

JT-UM25C USB-Messgerät



1. GENERAL INFORMATION

Dear customer,

Thank you for purchasing our product. In the following are information which you should note before commissioning. Whenever you have unforeseeable problems do not hesitate to contact us.

Today, USB connections are not only found at PCs, but also at power banks, in cars or in trains. But not all connections are of best quality and deliver even currents and voltages.

With the JT-UM25C, you always have all values in view. The meter supports additional functions such as Quickcharge 2.0 and 3.0, as well as Apple 2.4 A, 2.1 A, 1 A, 0.5 A and Android DCP, and also offers convenient evaluation via a wireless interface. With a measuring range of up to 24 V and 5 A, the JT-UM25C is suitable for practically all applications. The integrated 1.44" LCD display can be regulated in five brightness levels and provides always an overview of all measured values.

Voltage measuring range

Current measuring range

Update rate

Measurement accuracy

Temperature range

Display size

Supported QuickCharge modes 4 - 24 V

0 - 5 A

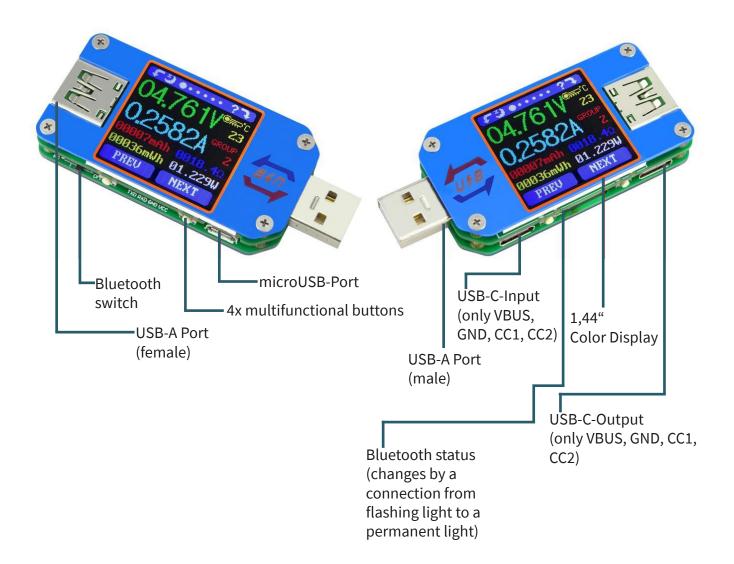
2 Hz

0,001 V / 0,0001 A

-10 - 100 °C

1,44"

QC2.0, QC3.0, Apple 2.4 A / 2.1 A / 1 A / 0.5 A, Android DCP, Samsung



<u>General use</u>

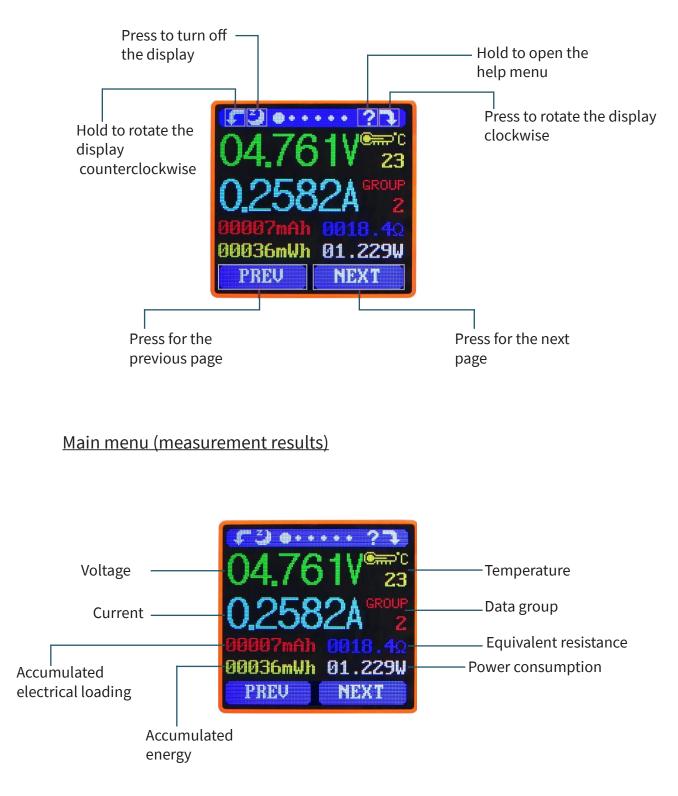
COUP COUP	04.743V [©] ²⁰ 0.2368A ^{croup} 0.81V ²⁰ 0.58V ²⁰ Mext	00018mAh 00086mWh 00:04:38 0.100 REC PREV NEXT
Measurement result main page	QuickCharge detection	Recording of charging process
••••••? 04.704V 0.2340A 00.000V 00.000A R=00.000Ω PREV NEXT	04. 30U 0. 000A PREV NEXT	Image: Second system Image: Second system Image: Second system <t< td=""></t<>
Cable impedance	Measurement graph	System settings
75 77 778 1		

Use **PREU** menu pages. and NEXT

to switch between the separate

NEXT

Hold **PREV** to switch to the next data group. Hold to reset the current data group.



The values of the data group 1 - 9 will be saved by a voltage interruption of the measuring device and is recalled and continues after the device is switched on again.

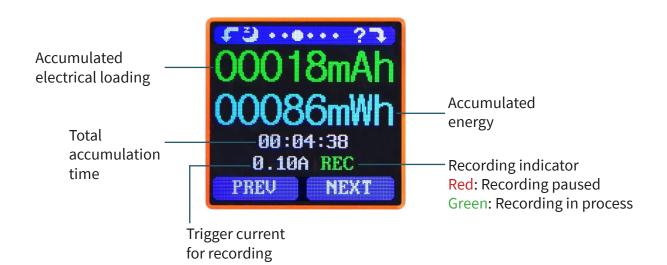
The values of data group 0, however, will be showed after the restart flashing and then it will be reset to 0 when 1mAh has been reached.

QuickCharge detection



The meter automatically recognizes devices with QuickCharge support. The following QuickCharge modes are currently supported: QC2.0. QC3.0, Apple 2.4 A / 2.1 A / 1 A / 0.5 A, Android DCP, Samsung

Recording of charging process



After power is turned on, if the flowing current is greater than the trigger value, the system automatically starts recording the accumulated electrical charge, energy and elapsed time. The "REC" indicator then changes from red to green.

To set the current trigger value, pressNEXTand hold it tohighlight the value. PressPREUto adjust the value accordingly.The value can be set anywhere between 0.01 A and 0.3 A.

Cable impedance

UM25C directly at the power supply system: Voltage and current values are displayed

UM25C via data connection: Voltage and current values are displayed



Measurement procedure:

First, connect the measuring device directly to the source and set the corresponding current load (recommended value: 1 A). Press NEXT and hold the button to start data recording.

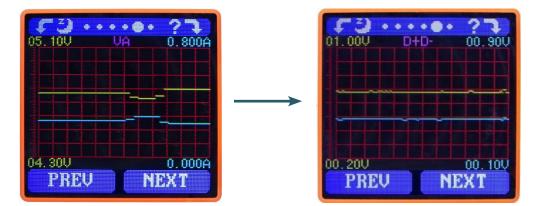
Now, disconnect the meter and then connect it to the power source via a microUSB or type-C data input connection and set the load current to the same value as in the first step. Press **NEXT** and hold the button to switch to the to begin data recording.

The display prompt stops flashing and the resistance measurement test of the data connection cable is completed and the value is displayed.



Attention! If the screen goes black in the second step, this means that the voltage difference is too high and the tester switches to the 4 V shutdown state. The load current must be reduced. Then restart the measurement from the first step. After the resistance test of the data connection cable is completed, the tester must be switched off and on again to continue the measurement.

Measurement graph



This menu displays the voltage measurement over time in the range of 4 - 24 V, as well as the current measurement in the range of 0 - 5 A and automatically adjusts the displayed range in real time to account the voltage and current fluctuations.

Press **NEXT** and hold to switch D+ / D- graph. This interface displays the D+ / D- voltage measurement over time in the range of 0 - 3.3 V and automatically adjusts the displayed range in real time to account the D+ / D- voltage fluctuations.

System settings

Time until automatic	F3 ····· 6 ?3	
screen shutdown	E 0 Minutes	
(default 1 minute)	🔆 4 Brightness	Screen brightness (default level 4)
Display temperature (default Celsius)	🖁 🛛 Centigrade	, , ,
	2	Background color scheme (default 2, blue)
Foreground color scheme (default 6, white)	6	
Scheme (delautt 6, White)	PREV NEXT	

Press and hold the buttonNEXTto enter the setting mode,pressNEXTagain to navigate through the options. Then pressPREVto change a setting and pressPREVocycle through the setting options. At each setting state, press and holdNEXTto exit the system settings.

4. PC - SOFTWARE

1. Connection

First download the software installation file <u>here</u>. Additionally, you need the font package **Arial Unicode MS.ttf**, which you can download <u>here</u>. Please install the font package first, before you continue with the installation of the software.

Now, install the software and follow the instructions there during the installation process.

After the installation process is completed, activate first of all the Bluetooth function on the LIM25C measuring of

first of all the Bluetooth function on the UM25C measuring device with the Bluetooth switch.

Then use the Bluetooth search in the settings of your computer to search for new Bluetooth devices. Add the **UM25C** device when it is found. If you are asked for a PIN during connection setup, please use the pin **1234** or **0000**.

← Settings

Home

Find	a	setting	

Devices

Add Bluetooth or other device

- B Printers & scanners
- ① Mouse
- Typing
- 🖉 Pen & Windows Ink
- AutoPlay
- Only chargers and USB connections to PCs are supported on your device

+ Mouse, keyboard, & pen



Bluetooth

Audio

USB Keyboard

USB OPTICAL MOUSE

Wireless displays & docks **(**)) 扬声器 (Realtek High Definition Audio)

くい) 麦克风 (Realtek High Definition Audio)

Related settings

2369

802.11n USB Wireless LAN Card

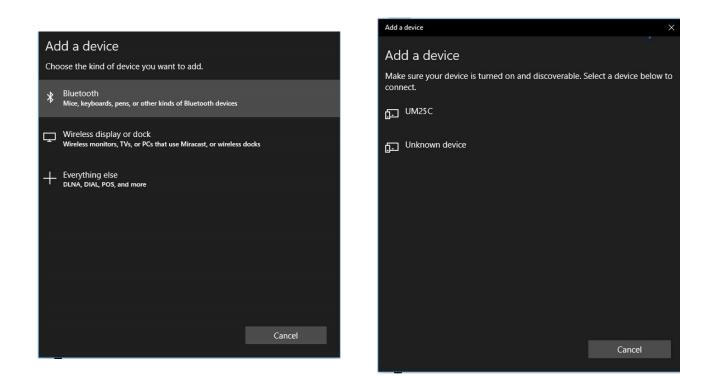
* CSR8510 A10

- 🗆 🛛

- Download over metered connections
- Additional resolution settings
- Display settings
- Mouse & touchpad settings
- Devices and printers
- More Bluetooth options
- Audio device

Make Windows better. Mixed reality

Give us feedback Get help



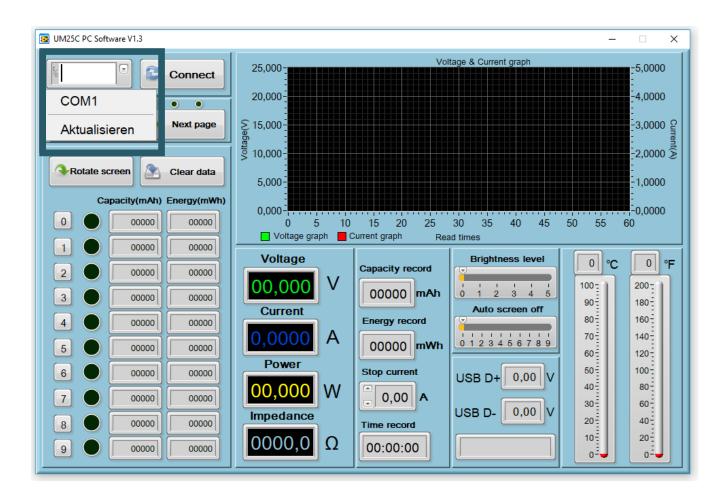
In order to be able to connect the installed software to the measuring instrument, it is necessary to know which port is used, to connect the instrument to your computer. To do this, select in the Bluetooth connection overview **Bluetooth settings**.

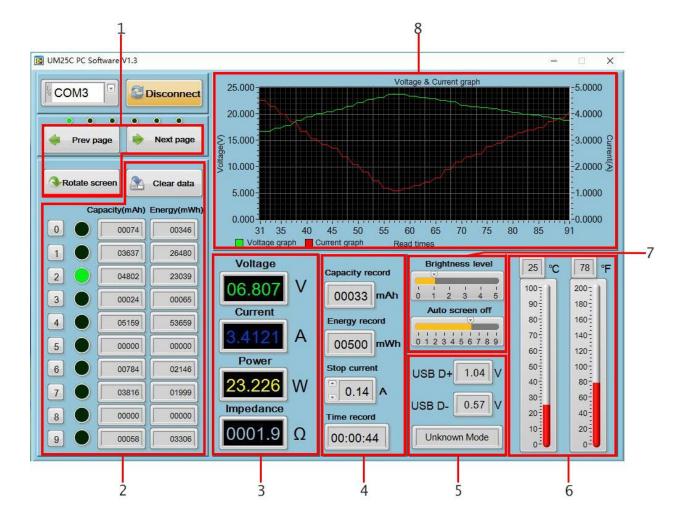
In the window that now opens, select the **COM ports** tab. The necessary interface in this case is **UM25C'Port'**.

👌 Blue	tooth-E	instellungen		×
Lesen	r PC ven	Bluetooth-G	Hardware Inten aufgelisteten COM-Anschlüsse (seriell). erätehandbuch, ob ein COM-Anschluss	
Ans COI COI		Richtung	Name UM25C 'Port' UM25C	
<u>H</u> inzufügen <u>E</u> ntfernen				
			OK Abbrechen Übernehm	en

2. Usage of the software

Now, open the **UM25C PC software V1.3**, which you have already installed on your computer. First, set the appropriate COM port to which the measuring device is connected to your computer and start the connection with the Connect button.





1	Basic functions
	(previous page, next page, rotate screen)
2	Data groups
	(direct selection of the data groups)
3	Main measuring interface
4	Data recording interface
5	QuickCharge interface
6	Temperature overview
7	Screen brightness,
	Time for automatical image shut down
8	Voltage-current diagram

With a right click within the voltage-current diagram, further options are available. Here, you can automatically scale the x-axis, copy the current data to the clipboard or rather export it as an Excel file, export the current graph as an image or delete the current graph. First download the app installation file **here** on your Android device and install the application.

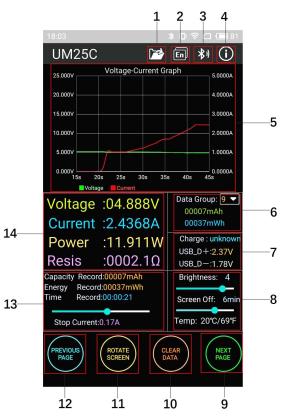




Attention! The application can only be used with Android 5.0 or higher.

Activate Bluetooth with the Bluetooth button on the meter, then establish the connection to the meter using the Bluetooth settings on your device. Use either **0000** or **1234** as the PIN during connection.

After the installation and connection is complete, you can start the application.



1	Data export	8	Brightness and temperature adjustment
2	Language settings	9	Go to the next page
3	Bluetooth connection	10	Reset current data group
4	General information	11	Rotation of the display
5	Voltage-current diagram	12	Go to the previous page
6	Accumulated mAh and mWh	13	Recording the charging process
7	QuickCharge detection, D+ and D- Data voltage signal	14	Main measured values

6. OTHER INFORMATION

Our information and take-back obligations according to the Electrical and Electronic Equipment Act (ElektroG)

Symbol on electrical and electronic equipment:

This crossed-out dustbin means that electrical and electronic appliances do **not** belong in the household waste. You must return the old appliances to a collection point. Before handing over waste batteries and accumulators that are not enclosed by waste equipment must be separated from it.

Return options:

As an end user, you can return your old device (which essentially fulfills the same function as the new device purchased from us) free of charge for disposal when you purchase a new device. Small appliances with no external dimensions greater than 25 cm can be disposed of in normal household quantities independently of the purchase of a new appliance.

Possibility of return at our company location during opening hours:

Simac GmbH, Pascalstr. 8, D-47506 Neukirchen-Vluyn, Germany

Possibility of return in your area:

We will send you a parcel stamp with which you can return the device to us free of charge. Please contact us by e-mail at Service@joy-it.net or by telephone.

Information on packaging:

If you do not have suitable packaging material or do not wish to use your own, please contact us and we will send you suitable packaging.

7. SUPPORT

If there are still any issues pending or problems arising after your purchase, we will support you by e-mail, telephone and with our ticket support system.

E-Mail: service@joy-it.net Ticket system: http://support.joy-it.net Telephone: +49 (0)2845 98469-66 (10-17 oʻclock)

For further information please visit our website: **www.joy-it.net**



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