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# ***VOLTCRAFT***

## **VOLTCRAFT PM-42 USB-A 2.0 Tester with Load**



## Technical data

- Input port ..... 1x USB-A
- Output port..... 1x USB-A
- Fast charge protocol..... Support QC1/2/3
- Voltage range ..... 4.00-24.00 V/DC, resolution: 0.01 V
- Current range ..... 0.05-3.00 A/DC, resolution: 0.01 A
- Capacity..... 0-99999 mAh, resolution: 1 mAh
- Energy ..... 0-1000 Wh
- Circuit equivalent resistance measurement..... 1-480  $\Omega$
- USB data cable voltage (D+, D-)..... 0-3.30 V
- Overvoltage protection ..... Trigger:
  - Input: 24 V
  - Input (in load mode): 13 V
- Recovery: Automatic after fault condition is removed
- Over temperature protection..... Trigger: >65 °C
- Action: display “HOT” + load stop
- Recovery: <45 °C

- Display..... Voltage, Current, Capacity,
- Energy, Circuit equivalent resistance
- Data storage..... 10 sets
- Electrical load ..... 0.50 A, 1.00 A, 2.00 A, 3.00 A
- Maximum timing ..... 99 hrs, 59 mins, 59 secs, resolution: 1 sec
- Display parameters..... VDD (V), Cur (A), mAh, Time
  - VDD (V), Cur (A), Wh, Time
  - VDD (V), Cur (A),  $\Omega$ , Time
  - D+ (V), D- (A), mAh, Time
- Support..... Data transmission: USB2.0
- Fast charge: 1.0/2.0/3.0
- Operating conditions..... 0 to +40 °C, <80 % RH, (non-condensing)
- Storage conditions..... -10 to +50 °C, <80 % RH, (non-condensing)
- Dimensions (W x H x D) ..... 122 x 53 x 27 mm
- Weight ..... approx. 114.4 g

## Product Usage Instructions

### 1. Connection

Connect the USB-A input to the device you wish to test. The USB-A output can be connected to a load.

### 2. Operating Modes

There are two main buttons on the tester: LOAD and MODE. Here is how to use them:

- **LOAD Button:** Press this button to apply load in the following sequence: 0.50A – 1.00A – 2.00A – 3.00A – STOP
- **MODE Button:** Press this button to switch between screens and display different parameters.

### 3. Query State

To enter the query state, follow these steps:

- Short press on LOAD: Display data.
- Short press on MODE: Query data parameters.

### 4. Cleaning and Maintenance

Regularly clean the tester with a soft, dry cloth. Avoid using any harsh chemicals that may damage the device.

## 5. Disposal

Dispose of the product according to local regulations for electronic waste disposal.

## Introduction

Thank you for purchasing this product. If there are any technical questions, please contact: [www.conrad.com/contact](http://www.conrad.com/contact)

## Operating Instructions for download

Use the link [www.conrad.com/downloads](http://www.conrad.com/downloads) (alternatively, scan the QR code) to download the complete operating instructions (or new/current versions if available). Follow the instructions on the web page.



## Intended use

- The product can test and measure the performance of various USB equipment (e.g., USB chargers, power banks, cables, and other USB devices).
- The product can apply a controlled electronic load to measure and record how a power source behaves under different load conditions.
- The product can display measurements for voltage, current, capacity, energy, and circuit equivalent resistance.
- The product is intended for indoor use only. Do not use it outdoors.
- Contact with moisture must be avoided under all circumstances.
- If you use the product for purposes other than those described, the product may be damaged.
- Improper use can result in short circuits, fires, or other hazards.
- The product complies with the statutory national and European requirements.
- For safety and approval purposes, you must not rebuild and/or modify the product.

Read the operating instructions carefully and store them in a safe place. Make this product available to third parties only together with the operating instructions.

- All company names and product names are trademarks of their respective owners. All rights reserved.

## **Delivery contents**

- Product
- Operating instructions

## **Description of symbols**

The following symbols are on the product/appliance or are used in the text:

- The symbol warns of hazards that can lead to personal injury.
- Read the operating instructions carefully.

## **Safety instructions**

Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.

### **General**

- The product is not a toy. Keep it out of the reach of children and pets.
- Do not leave packaging material lying around carelessly. This may become dangerous playing material for children.
- If you have questions that remain unanswered by this information product, contact our technical support service or other technical personnel.
- Maintenance, modifications, and repairs must only be completed by a technician or an authorised repair centre.

### **Handling**

Handle the product carefully. Jolts, impacts or a fall even from a low height can damage

the product.

## Operating environment

- Do not place the product under any mechanical stress.
- Protect the appliance from extreme temperatures, strong jolts, flammable gases, steam and solvents.
- Protect the product from high humidity and moisture.
- Protect the product from direct sunlight.

## Operation

- Consult an expert when in doubt about the operation, safety or connection of the product.
- If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. DO NOT attempt to repair the product yourself.

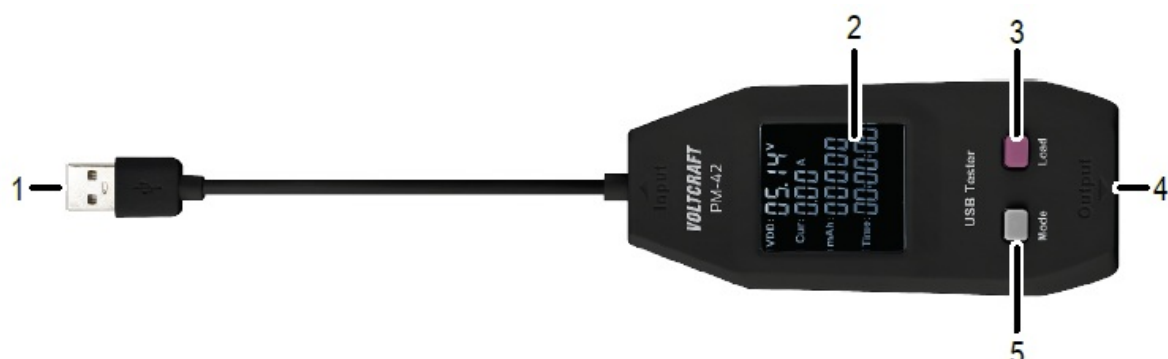
Safe operation can no longer be guaranteed if the product:

- is visibly damaged,
- is no longer working properly,
- has been stored for extended periods in poor ambient conditions or
- has been subjected to any serious transport-related stresses.

## Connected devices

Also observe the safety and operating instructions of any other devices which are connected to the product.

## Product overview



1. USB-A input

2. Display
3. **LOAD**: Load button
4. **USB-A** output
5. **MODE**: Mode button

## Connection

### Important:

Identify the input/output markings on the tester and product before making any connections.

### Confirm the input voltage

- Check the input voltage of the product to be tested.
  - Risk of damage! The voltage to the tester must not exceed 25 V.
1. Connect the output of the device to be tested (e.g., charger or power bank) to the tester input.
  2. Verify the displayed voltage is within the acceptable range (4-24 V).
    - “OL” shows if the voltage (>24 V) or current (>3.0 A).  
Disconnect the product from the USB port and do not proceed with testing.
    - “LO” shows if the voltage (<4 V).
  3. If the output voltage is within range, proceed to testing.

## Operation

Button	Action	Functions
<b>MODE</b>	Short presses	Switch screens / view different parameters.
<b>MODE</b>	Long presses	<ul style="list-style-type: none"><li>■ In load state: Switch load OFF.</li><li>■ No load present: Clear current data.</li></ul>

<b>LOAD</b>	Short presses	<p>Apply load effect in the following sequence:</p> <p>0.50A → 1.00A → 2.00A → 3.00A → STOP</p>
<b>MODE + LOAD</b>	Short presses	<p>Enter query state:</p> <ol style="list-style-type: none"> <li>1. Short press <b>LOAD</b>: browse data</li> <li>2. Short press <b>MODE</b>: query data parameters</li> </ol>
<b>LOAD</b>	Long presses	<ul style="list-style-type: none"> <li>■ In query state: Clear data</li> <li>■ In load state: Save a set of data <ul style="list-style-type: none"> <li>– M1: no load data</li> <li>– M1L: data with load</li> </ul> </li> </ul>

## Cleaning and care

### Important:

- Do not use aggressive cleaning agents, rubbing alcohol or other chemical solutions. They damage the housing and can cause the product to malfunction.
- Do not immerse the product in water.

1. Disconnect the product from the power supply.
2. Clean the product with a dry, fibre-free cloth.

### Disposal

- This symbol must appear on any electrical and electronic equipment placed on the EU market. This symbol indicates that this device should not be disposed of as unsorted municipal waste at the end of its service life.
- Owners of WEEE (Waste from Electrical and Electronic Equipment) shall dispose of it separately from unsorted municipal waste. Spent batteries and accumulators, which



are not enclosed by the WEEE, as well as lamps that can be removed from the WEEE in a non-destructive manner, must be removed by end users from the WEEE in a non-destructive manner before it is handed over to a collection point.

Distributors of electrical and electronic equipment are legally obliged to provide free take-back of waste. Conrad provides the following return options free of charge (more details on our website):

- in our Conrad offices
- at the Conrad collection points
- at the collection points of public waste management authorities or the collection points set up by manufacturers or distributors within the meaning of the ElektroG

End users are responsible for deleting personal data from the WEEE to be disposed of. It should be noted that different obligations about the return or recycling of WEEE may apply in countries outside of Germany.

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\*2382708\_V5\_0425\_dh\_mh\_en 63050396458667403-2 I8/O5 en

## FAQ

**Q: What are the main functions of the LOAD and MODE buttons?**


**A:** The LOAD button is used to apply load in a specific sequence, while the MODE button is used to switch between screens and display different parameters.

**Q: How can I check the data parameters of the device under test?**

**A:** To check data parameters, enter the query state by following the steps mentioned

under the ‘Query State’ section in the usage instructions.

# Documents / Resources

	<a href="#">VOLT CRAFT PM-42 USB-A 2.0 Tester with Load [pdf]</a> Instruction Manual 2382708, PM-42 USB-A 2.0 Tester with Load, PM-42, USB-A 2.0 Tester with Load, 2.0 Tester with Load, Tester with Load, Load, Tester
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## References

- [User Manual](#)

VOLT CRAFT

2.0 Tester with Load, 2382708, LOAD, PM-42, PM-42 USB-A 2.0 Tester with Load, Tester, Tester with Load, USB-A 2.0 Tester with Load, VOLT CRAFT

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