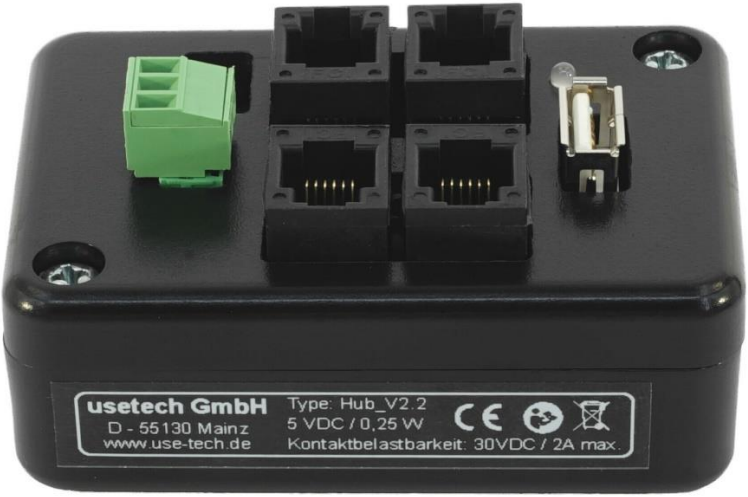
FlowTimer+ Hub Set

Connection center

for the FlowTimer+ System

Operating manual



use GmbH TECH

Metering and control technology

Publisher usetech GmbH
Tanzplatz 10
D- 55130 Mainz
Phone: +49 6131 - 921325
Website: www.use-tech.com

Document number FlowTimer+ Hub Set_Manual_EN_V3
Original Operating Manual

Date of issuance 04.03.2019
Printing date 04.03.2019

Copyright usetech GmbH

This documentation including all its parts is protected by copyright. Any use or modification outside the narrow limits of copyright law without the consent of the company usetech GmbH is prohibited and punishable by law.

This applies in particular to duplications, translations, microfilming and storage in electronic systems as well as processing in these.

Table of contents

Table of contents 1

1 General information 3

1.1 Explanation of symbols 3

2 Technical data 5

2.1 Electrical data 5

2.2 Environmental and climate conditions 5

2.3 Lifetime 5

3 Intended Use 6

3.1 Non-approved use 7

4 Basic safety instructions 8

5 System description FlowTimer+ Hub Set 9

5.1 Content of the FlowTimer+ Hub Set 9

5.2 FlowTimer+ Hub Plan view 10

6 Installation 11

6.1 Mounting the Hub on the Mobile phone holder 11

6.2 Mounting the Hub on a pipeline 12

6.3 Electrical connection 13

6.4 Cascading the FlowTimer+ Hub 13

6.5 Potential-free alarm output 15

6.6 Charging connection Smartphone 16

6.7 Smartphone app 16

7 Operation and Function 17

7.1 Operating conditions 17

7.1.1 Normal operation 17

7.1.2 Restarting the system 17

7.2 Status display 17

8 Troubleshooting, Maintenance 18
8.1 No display 19
8.2 Alarm signals 19
8.2.1 Status display permanently red 19
8.3 Maintenance 20
9 Packaging, Transport, Storage 21
10 Disposal 22
11 EC Declaration of Conformity 23

1 General information

The operating instructions describe the entire life cycle of the system. Keep this manual in such a way that it is easily accessible to any user and available to any new owner of the system.

NOTE **The operating instructions contain important information on safety!**

Non-observance of these instructions can lead to dangerous situations.

- The operating instructions must be read and understood.

1.1 Explanation of symbols

DANGER	**Warns of imminent danger!** Failure to do so will result in death or serious injury.
WARNING	**Warns of a potentially dangerous situation!** • Failure to do so could result in serious injury or death.
CAUTION	**Warns of a possible hazard!** • Failure to do so may result in moderate or minor injury.

NOTE **Warns of material damage!**

Failure to do so may result in damage to the system or equipment.

indicates important additional information, tips and recommendations that are important for your safety and the proper functioning of the system.

refers to information in this operating manual or other documentation.

➢ **action steps**

The defined sequence of steps makes it easier for you to use the system correctly and safely.

✓ **Result**

Here you will find the result of a sequence of steps described.

2 Technical data

2.1 Electrical data

- Input voltage: 5VDC
- Power consumption: average max. 0.25 W
- Supply connection: Micro USB socket

- Output socket: USB A socket
- Output current USB: max. 1.5 A

- Potential-free output:
  Contact rating, 30VDC / 2A

- I/O sockets: 4x RJ12 (6pol)

2.2 Environmental and climate conditions

- Ambient temperature: +5°C-40°C
- Protection class: IP20
- Location: only suitable for indoor use

2.3 Lifetime

- The function of FlowTimer+ Hub must be checked by a qualified technician at regular intervals (see also chapter 9.3).

3 Intended Use

Please observe the notes in this operating manual as well as the operating conditions and permissible data in the data sheet so that the system functions perfectly and remains operational for a long time. In case of non-observance of these instructions as well as in case of inadmissible interventions into the system, any liability on our part is void, as is the warranty on the system and accessories!

The FlowTimer+ Hub connects several FlowTimer+ to a group, and thus generates a group alarm.

This alarm is available via a potential-free switching output (for alarm systems, Smart Home Sensor, etc.).

An external smartphone can be permanently charged via the FlowTimer+ Hub. In the event of an alarm, the FlowTimer+ Hub interrupts the charge, a suitable app on the smartphone can then, for example, send an SMS as a warning.

The FlowTimer+ Protect can be connected like a FlowTimer+ and is then activated in case of an alarm.

Any other use or use going beyond this shall be deemed improper use. The usetech GmbH is not liable for damages resulting from this. The risk is borne solely by the user.

3.1 Non-approved use

Unapproved use in the sense of a foreseeable misuse shall be deemed to be improper use:

- The I/O sockets of the FlowTimer+ Hub are only suitable for the connection of FlowTimer+ products. No telephones, ISDN, other devices or adapters may be connected.
- The FlowTimer+ Hub may only be operated with the components in the set or other FlowTimer+ products, unless explicitly stated otherwise! If components of other manufacturers are used, usetech GmbH is not liable for damages and the warranty also expires.
- The USB A output socket serves only as a charging socket for a smartphone.

4 Basic safety instructions

WARNING

Electrical voltage can be life-threatening.

- The installation of a stationary power supply must be carried out by a qualified electrician.

The system must be commissioned and, if necessary, adapted by a specialist. The local conditions must be observed.

5 System description FlowTimer+ Hub Set

5.1 Content of the FlowTimer+ Hub Set

Fig. 5.1: Content of the FlowTimer+ Hub Set

1 Plug power supply 5V / 1,5A
2 FlowTimer+ Stroke
3 Mobile phone holder
4 I/O connection cable 2 m
5 Charging cable 0.3 m (Micro USB to USB A)

The set also includes a Power Strip, two self-adhesive mounting sockets and two cable ties for mounting the FlowTimer+ Hub.

5.2 FlowTimer+ Hub Plan view

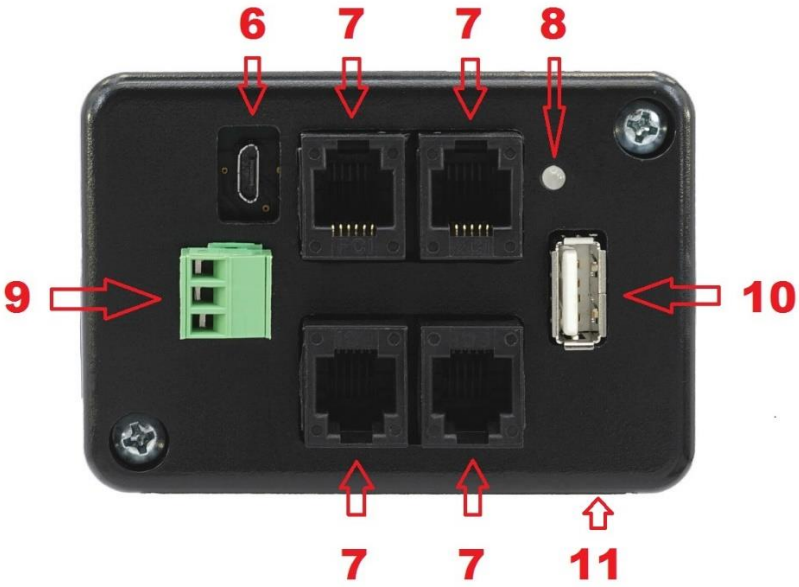


Fig. 5.2: FlowTimer+ Hub Plan view

6 Power supply connection (Micro USB socket)
7 I/O connection (RJ12 /6pol)
8 Status display (red/green)
9 Potential-free switching output
10 Charging socket output (USB A)
11 Nameplate

6 Installation

6.1 Mounting the Hub on the Mobile phone holder

Fig. 6.1: FlowTimer+ Hub mounted on mobile holder

➢ As shown in Figure 6.1, the FlowTimer+ Hub can be glued to the hand holder from below using the supplied Power Strip.

✓ The plugged-in power supply unit then holds the Mobile phone holder with hub and if required also the smartphone on the wall.

6.2 Mounting the Hub on a pipeline

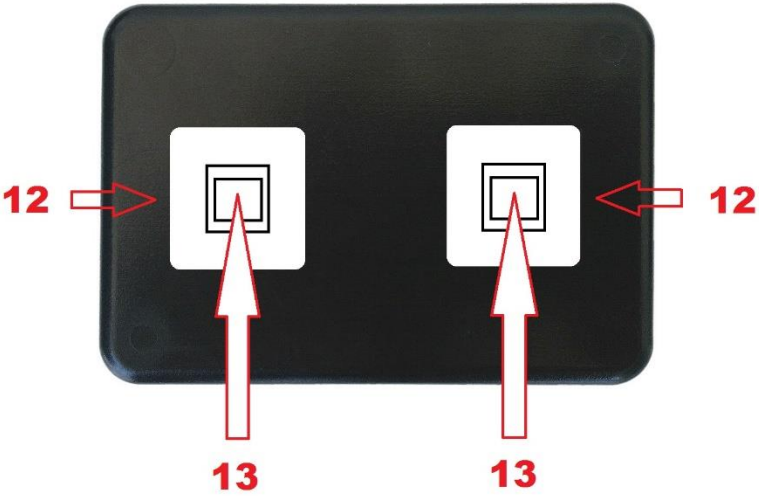


Fig. 6.2: FlowTimer+ Hub Rear view with mounting sockets

- Stick the self-adhesive mounting bases (12) to the back of the FlowTimer+ Hub as shown in Figure 6.2. Push the cable ties (13) from below through the bases and tighten them on the pipeline.

6.3 Electrical connection

If the I/O plug is plugged into the socket, this must cause a clicking noise. If not, please check again whether the plug is correctly engaged!

When disconnecting connections, please note to press the locking lugs of the I/O connectors!

- ➢ Plug the power supply unit into a suitable socket and connect the power supply unit to the power supply connection (6) of the FlowTimer+ Hub.

- ✓ The status indicator (8) of the FlowTimer+ Hub must now be green glow.

- ➢ Now connect all FlowTimer+ and FlowTimer+ Protect to the I/O sockets (7) of the FlowTimer+ Hub (2) using the I/O connection cables (4).

6.4 Cascading the FlowTimer+ Hub

If more than four FlowTimer+ or FlowTimer+ Protect are used, additional FlowTimer+ Hub Sets are required.

- ➢ Connect three I/O connectors (7) to FlowTimer+ or FlowTimer+ Protect devices using the I/O connecting cables (4) of the FlowTimer+ Hub Set.

- Connect the remaining fourth I/O port (7) to another FlowTimer+ Hub I/O port (7).
- Which I/O connection (7) is used for which device and which sequence is irrelevant for the function.

✓Three more FlowTimer+ Hubs can now be connected to the second FlowTimer+ Hub, FlowTimer+ or FlowTimer+ Protect, or two FlowTimer+ / Protect and one more FlowTimer+ / Protect and another FlowTimer+ Hub!

Remark:

Therefore only one FlowTimer+ Hub Set is required when using a total of 4 FlowTimer+ or FlowTimer+ Protect.

If more than a total of 4 FlowTimer+ or FlowTimer+ Protect devices are used, an additional FlowTimer+ Hub Set is required for every two additional FlowTimer+ or FlowTimer+ Protect devices!

Note:

Only the FlowTimer+ Hub has to be supplied with voltage by the power supply unit (1), at which an output (switching contact or charging output) is also used!

WARNING

Risk of destruction:

- Never use ISDN distributors, splitters or telephone distributors to connect FlowTimer+ devices.

6.5 Potential-free alarm output

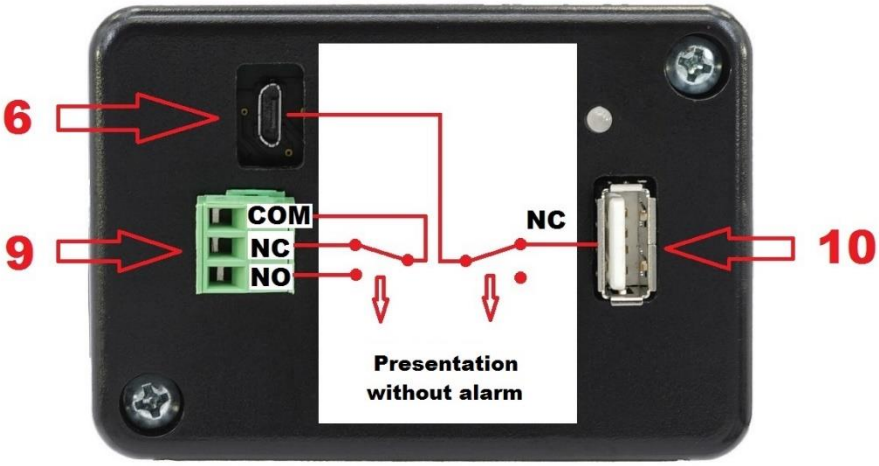


Fig. 6.3: FlowTimer+ Hub Scheme Alarm Contact

The illustration above shows the FlowTimer+ Hub at rest (without alarm).

Without alarm COM is internally connected to NC.

In case of alarm COM is internally connected to NO.

WARNING

Never connect mains voltage!

- The contact load capacity is 30VDC / 2A

6.6 Charging connection Smartphone

According to figure 6.2, the power supply socket (6) is internally connected to the USB charging socket (10) in idle mode (without alarm).

The included micro USB power supply can therefore charge an external smartphone.

In the event of an alarm, the USB charging socket (10) is internally disconnected and charging is interrupted.

This separation can then be evaluated using Mobile App.

6.7 Smartphone app

There is a large selection of mobile alarm system apps for smartphones available on the Internet, which can help an outdated smartphone to develop a new application.

For example, we can recommend the SALIENTEYE App, which can be downloaded from www.salient-eye.com .

Which mobile app you ultimately choose depends on your device and your personal requirements.

Note:

The mobile app used only needs to recognize that the charger has been removed. We recommend only Apps, without Clouddienste etc.. Only apps that can send an SMS directly from your smartphone!

7 Operation and Function

7.1 Operating conditions

7.1.1 Normal operation

An operation of FlowTimer+ Protect is not necessary, because an alarm as well as its resetting is done automatically by the upstream FlowTimer+ systems.

7.1.2 Restarting the system

- Unplug the AC adapter (1) from the wall outlet or disconnect the power supply.
- wait ten seconds
- Restore power supply

7.2 Status display

 Green (duration)	There's no alarm pending.

 Red (duration)	An alarm of a FlowTimer+ has triggered a group alarm (see also chapter 9.2.1).

8 Troubleshooting, Maintenance

Power failure

- In the event of a power failure, all FlowTimer+ and FlowTimer+ Protect open automatically and connect the downstream piping systems to the respective supply.

The protective function is no longer given!

- The power supply for the FlowTimer+ Hub is then also no longer powered, the charging of the smartphone is interrupted and its mobile app can then send an alarm via SMS.

CAUTION

Make sure that you use the same supply voltage for all FlowTimer+ and FlowTimer+ Hubs.

8.1 No display

If the FlowTimer+ Hub does not indicate a status, make sure that the power supply is working and that the power supply is plugged in correctly.

If there is still no display, the power supply unit may be defective.

8.2 Alarm signals

8.2.1 Status display permanently red

Red (duration)

- An alarm via the I/O port has triggered a group alarm.

Examination:

➢ Check the status indicators of each FlowTimer+ system (please follow the FlowTimer+ Set instructions).

An operation of FlowTimer+ Hub is not necessary, because an alarm as well as its resetting is done automatically by the upstream FlowTimer+ systems.

8.3 Maintenance

interval	plot
Monthly	Check entire system restart and function (see "FlowTimer+ Set instructions").
Biennial	The FlowTimer+ Hub should be checked by an installer after two years at the latest.

9 Packaging, Transport, Storage

Transport damage!

Inadequately protected systems can be damaged during transport.

- Protect the system from moisture and dirt and transport it in shockproof packaging.
- Avoid exceeding or falling below the permissible storage temperature.
- Protect electrical connections from damage with protective caps.

The system must be transported or stored in its intended packaging until it is installed.

Incorrect storage can cause damage to the system!

- Store system dry and dust-free!
- Storage temperature: -30°C to +60°C

10 Disposal

Information on the Waste Equipment Ordinance

Act on the placing on the market, take-back and environmentally sound disposal of electrical and electronic equipment (Elektro- und Elektronikgerätegesetz - ElektroG).

Note on the Electrical and Electronic Equipment Act (ElektroG):

Please dispose of old equipment at a municipal collection point as required by law, or hand it over to your local dealer free of charge.

Disposal with household waste is expressly forbidden according to the Old Equipment Ordinance!

You can return devices received from us to us free of charge after use by sending them back sufficiently franked by post to the address given in the imprint.

Old appliances that contain harmful substances are marked with the symbol of a crossed-out dustbin.

11 EC Declaration of Conformity

after:

Annex III of the EC Low Voltage Directive 2014/35/EU.

Annex I of the EC Directive on Electromagnetic Compatibility 2014/30/EU.

RoHS Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

The

usetech GmbH
Tanzplatz 10
D-55130 Mainz

declares that

Product Name: Flowtimer+ Hub
Type: V2.2
Year of construction: 2017

complies with the provisions of the above-mentioned EC Directives.

The following standards and technical specifications have been applied:

DIN EN 61326-1; VDE 0843-20-1:2013-07

Date: 31.07.2017
Name: Dipl. Ing. (FH) Stefan Windisch
Function: CEO

Signature:_____