

QUICKLY CONNECTED!

With this new USB hub using 3.0 standard the data transfer rate is up to ten times quicker via its six USB ports.



This **USB hub** has six USB downstream ports with quick USB 3.0 standard that can be remote controlled via software and can be turned on and off individually. Due to USB 3.0 integration, the data transfer rate increases tremendously compared to the previous 2.0 standard.

The hub is operated using a 12...24 VDC power supply with at least 35 W output power, which is sufficient for a 900 mA output current on each USB port. The USB ports of MCD's new developed hub have a function to automatically detect when a USB device is connected.

EFFICIENT ENERGY MANAGEMENT WITH FAST DATA TRANSFER

- **CONTROL**
via the USB hub connection or an additional USB control connection, alternatively connection to a host with simultaneous control from another host
- **CURRENT MEASUREMENT**
for every port with detection of defects (e.g. current consumption too high/too low), measurement of the current consumption of connected devices
- **ENERGY SAVING**
by automatically changing the USB hub into "sleep mode" if the connected devices are not sending or receiving data

Connection detection can be disabled individually for each port if the small test current should lead to unexpected problems. When switching it off, the supply voltage (+5 V) and the data lines are separated via the semiconductor switches. The control is via ASCII commands or the Toolmonitor USB hub, which is included in delivery.

TECHNICAL FEATURES

- 6 ports, individually switchable, up to 2,5 A per port
- Total output current up to 6 A
- Displaying of switched on ports via LEDs
- Back feed from the power supply to the USB host

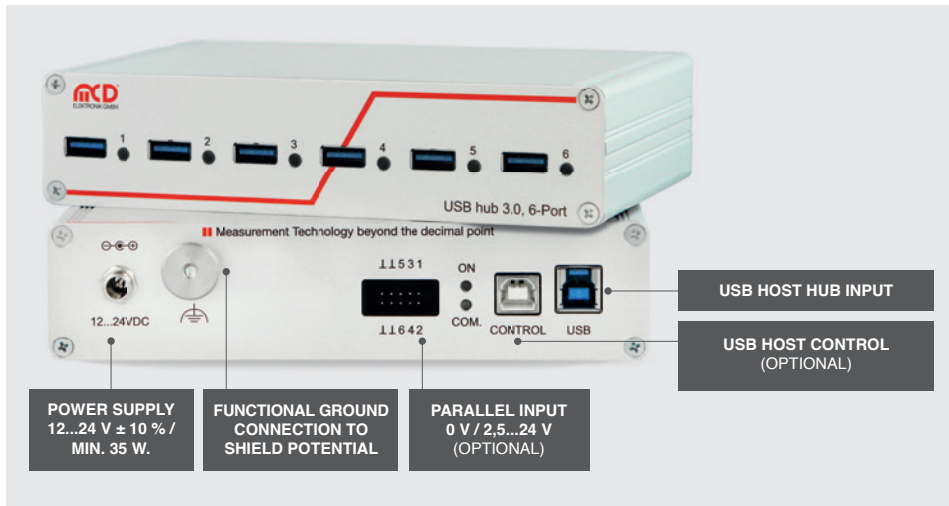
TECHNICAL DETAILS

Each port of the 6-port USB 3.0 hub from MCD Elektronik can be turned on and off individually via software, data as well as supply lines.

USB hubs relay data from one host to many devices. In order to log single devices on and off precisely, the user normally has to pull the plug. A software separates each port of MCD's USB hubs individually, data as well as power supply line, via CMOS components. If you prefer to program by yourself instead of using the delivered software "Toolmonitor USB hub", you can control the hub via LabView®, MS Office®, OpenOffice® or via C++, C# and Visual Basic®. This hub can be implemented for Linux operating systems, if required.

CHARACTERISTICS

- Connection for functional ground for better shielding against non-grounded power supply
- Robust and compact metal housing
- Operating status when switching on (e.g. active USB ports) can be determined and saved
- Simple remote control with a lot of operating systems and programming languages
- Extensive installation package with all programming interfaces
- Control via included software "Toolmonitor USB hub" and via simple, short ASCII commands



FEATURES:

- Dimensions: 105 x 165 x 38 mm (without connections + feet)
- Current measurement with a resolution better than 10 mA
- Upstream to host, additional control input (optional)
- External power supply, parallel control input



Further information:

www.mcd-elektronik.com/products/online-control-systems/usb-hub-30-6-port-switchable-2-control-inputs.html

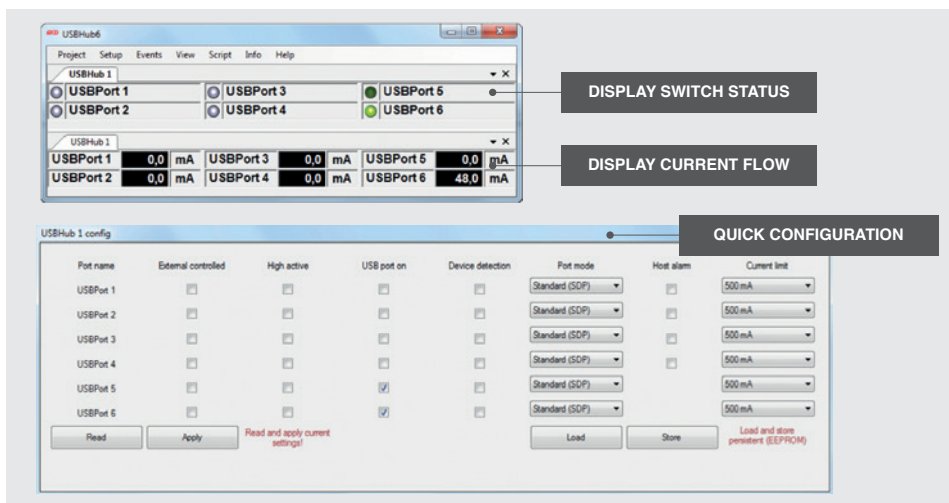
SOFTWARE

Simple control and adjustment via the included software "Toolmonitor USB hub".

The program interface can be made widely available and adaptable to the user's requirements. Once created, configurations can be saved in project files and called upon when needed. With the help of an integrated script engine, all functions are performed automatically. For third-party software, MCD's Toolmonitors can be fully remote controlled. COM/DCOM or a .Net-Assembly is used as an interface and this allows the Toolmonitor to be integrated in a large number of applications (Microsoft Visual Studio® (C#, C++, Visual Basic), Microsoft Office® (e.g. Excel®), Open Office®, LabView®, MCD TestManager CE, Standard Windows DLL).

FEATURES "TOOLMONITOR USB HUB"

- Easy to operate program interface, functions scalable via Drag + Drop if necessary
- Assignment of names in the use of various hubs
- Remote controllable operating modes SDP, CDP, DCP or the charger emulation
- Automatical host notification to the operating system while overcurrent incident
- Adjustment of current limitation per port possible
- Direct communication to the hub control unit via command line; expandable and changeable by individual programming (ASCII commands)



PARTS INCLUDED IN DELIVERY:

- 1x USB hub 3.0 6-port, switchable (2 control inputs)
- 1x power supply with DC power connector (screwable)
- 1x USB memory stick (4 GB) with installation software
- 1x USB-A to USB-B connection cable 2 m

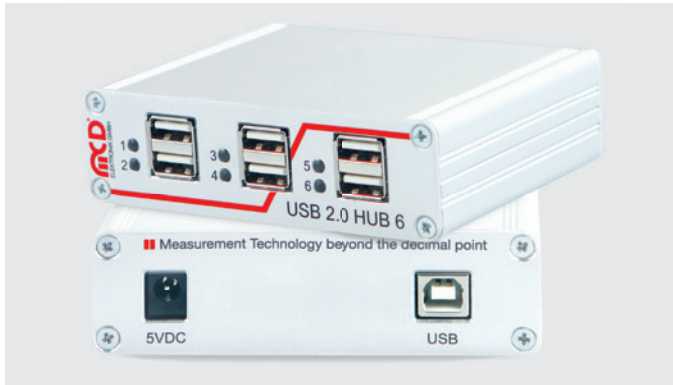


Software installation files for different USB hubs:

www.mcd-elektronik.com/downloads.html

FURTHER USB HUBS OF MCD ELEKTRONIK

■ USB HUB 2.0 6-PORT, SWITCHABLE



FEATURES:

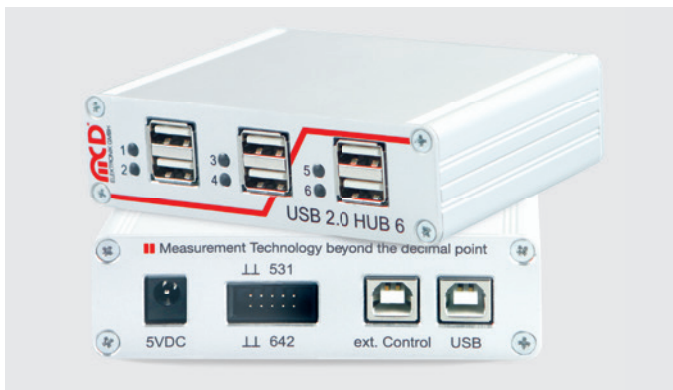
- Dimensions: 85 x 105 x 30 mm (without connectors + feet)
- 6 USB 2.0 downstream ports with semiconductor switches
- Automatic shut-off of overloaded USB ports
- Robust metal housing



Further information:

www.mcd-elektronik.com/products/online-control-systems/usb-hub-20-6-port-switchable.html

■ USB HUB 2.0 6-PORT, 2 CONTROL INPUTS, SWITCHABLE



FEATURES:

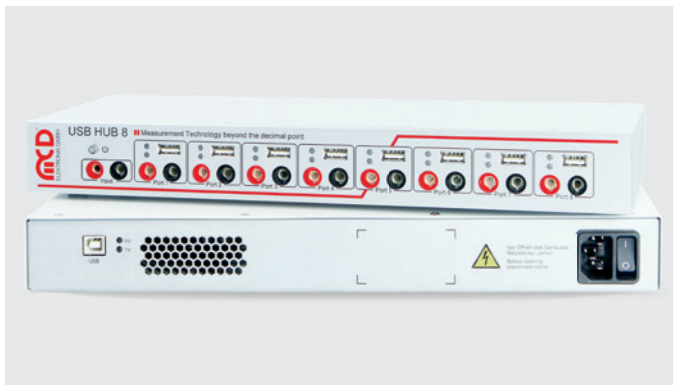
- Dimensions: 85 x 105 x 30 mm (without connectors + feet)
- 6 USB 2.0 downstream ports with semiconductor switches
- Additional control connection, controllable via parallel port
- Hub delivers max. 5 A supply or charging current



Further information:

www.mcd-elektronik.com/products/online-control-systems/usb-hub-20-6-port-switchable-2-control-inputs.html

■ USB HUB 2.0 8-PORT, SWITCHABLE



FEATURES:

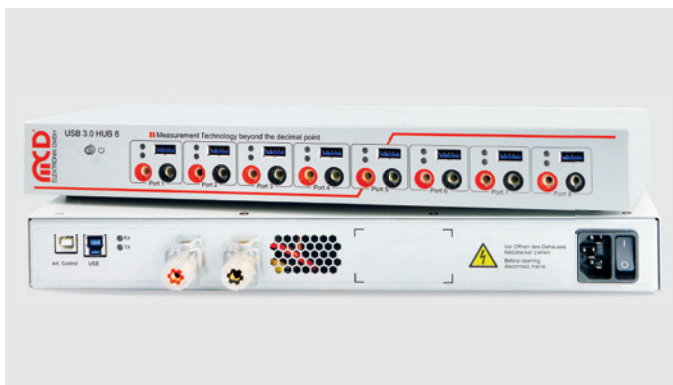
- Dimensions: 115 x 350 x 44 mm (without connectors + feet)
- 8 USB 2.0 downstream ports with semiconductor switches
- Maximal data transmission with 480 MBit per second
- Hub delivers max. 20 A supply or charging current
- 8-channel relay multiplexer, up to 2 A per channel



Further information:

www.mcd-elektronik.com/products/online-control-systems/usb-hub-20-8-port-switchable.html

■ USB HUB 3.0 8-PORT, SWITCHABLE



FEATURES:

- Dimensions: 115 x 350 x 44 mm (without connectors + feet)
- 8 USB 2.0 downstream ports with semiconductor switches
- Maximal data transmission with 5 GBit per second
- Hub delivers max. 20 A supply or charging current
- 8-channel relay multiplexer, up to 5 A per channel



Further information:

www.mcd-elektronik.com/products/online-control-systems/usb-hub-30-8-port-switchable.html

**Driven by the credo "Innovate, Test, Repeat.",
MCD develops innovative, customer-specific
"Made in Germany" test systems designed
by qualified technicians and engineers.**



In order to be competitive in the international market in the long term, it is important for MCD Elektronik to be represented on a global level. This is confirmed by a current **export share of approximately 80%**, which is made up of **customers served in over 55 countries**.

MCD Elektronik GmbH is proud to have trusted **representatives** in the **Shanghai and Budapest** offices. These representatives realize the important processes of project preparation, commissioning, calibration, training as well as the implementation and support of trade fairs directly on site.



MCD Elektronik GmbH places great value on **further development and innovations** that advance the company and its employees. On a regular basis, this innovative strength is recognized by the awards in the **TOP 100** competition for medium-sized companies. MCD Elektronik GmbH received the independent industry award for the first time in 2018 and has successfully participated every year since then.

TOP 100 is the only competition in Germany that evaluates the innovation management and innovative success of companies. Around 120 defined evaluation parameters, such as "innovative processes", "climate of innovation" or "open innovation", are examined.



The employees of MCD Elektronik GmbH form the heart of the developed test systems. Approximately **60 specialists** ensure that the highest quality finds its way into every production. The employees take care of **quality assurance** down to the smallest detail. The company's long-standing success is largely due to the employees at MCD.

Their creativity, competence and experience are decisive for the successful implementation of every project that comes out of the Birkenfeld head office. A high degree of personal responsibility and short decision-making channels make it possible to react **quickly and flexibly** to all requirements.