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

GET IN **touch**
WITH SENSITIVE TESTING

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.
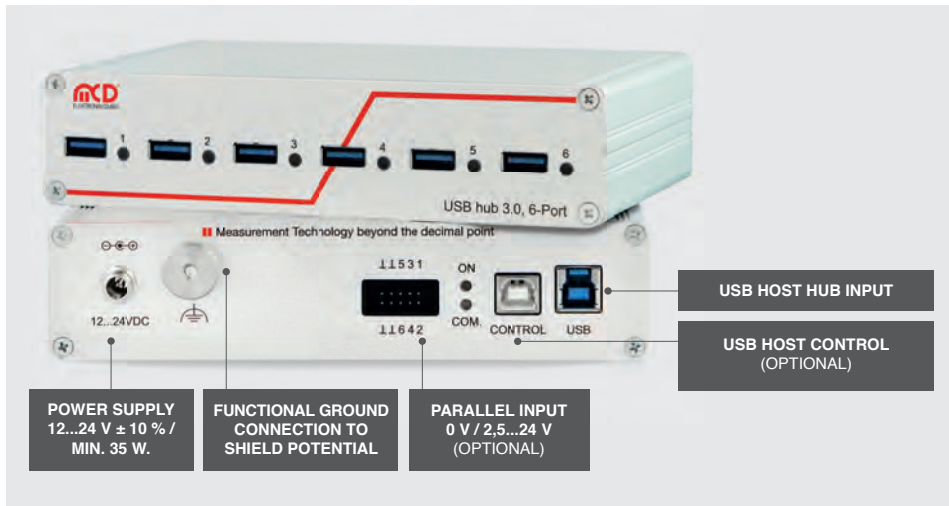
CHARACTERISTICS

- 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

USB HOST HUB INPUT

USB HOST CONTROL
(OPTIONAL)

POWER SUPPLY
12...24 V ± 10 % /
MIN. 35 W.

FUNCTIONAL GROUND
CONNECTION TO
SHIELD POTENTIAL

PARALLEL INPUT
0 V / 2,5...24 V
(OPTIONAL)

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/conline-control-systems/usb-hub-30-6-port-switchable-2-control-inputs.html
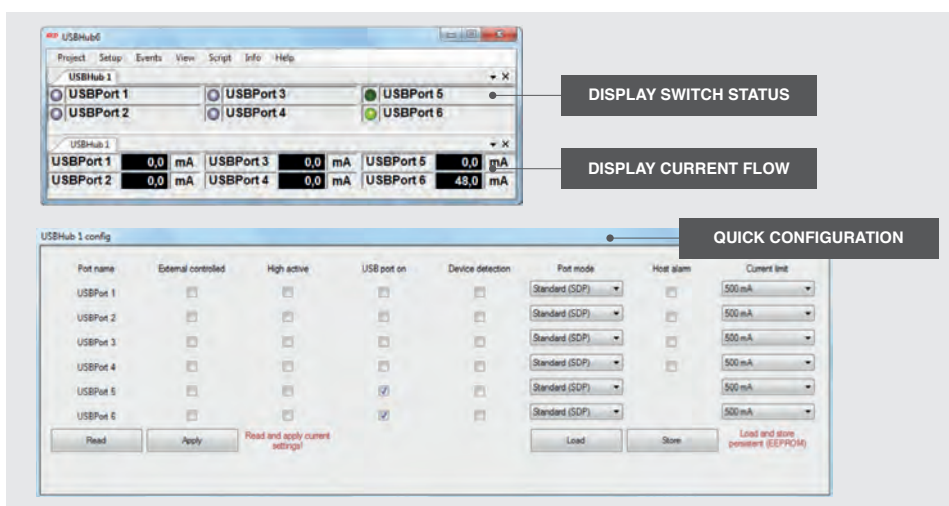
SOFTWARE

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)

DISPLAY SWITCH STATUS

DISPLAY CURRENT FLOW

QUICK CONFIGURATION

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
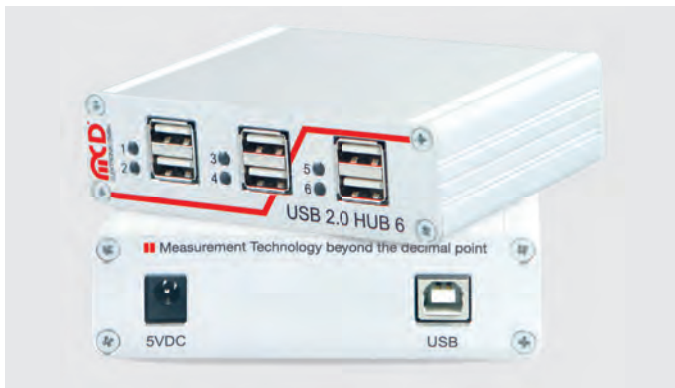- 1x USB-A to USB-B connection cable 2 m

Order in shop:
Order number: 153780 / Price: 880 €*
shop.mcd-elektronik.com/Conline/USB-hub-3-0-6-port-switchable-2-control-inputs.html

FURTHER USB HUBS OF MCD ELEKTRONIK

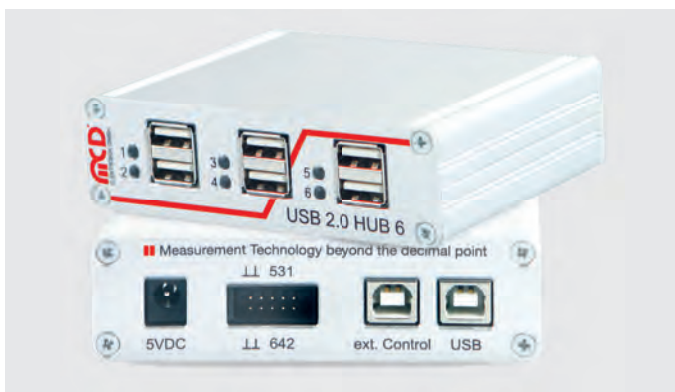## ■ USB HUB 2.0 6-PORT, SWITCHABLE

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

Order information:
USB hub 2.0 6-Port, switchable
Order number: 119102
Price: 395 €*

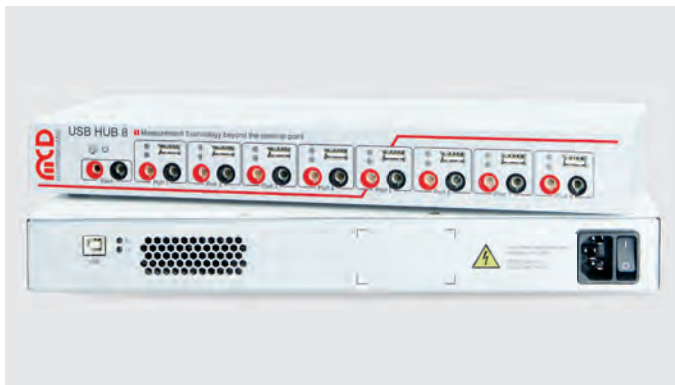## ■ USB HUB 2.0 6-PORT, 2 CONTROL INPUTS, SWITCHABLE

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

Order information:
USB hub 2.0 6-Port, 2 control inputs, switchable
Order number: 122536
Price: 440 €*

■ 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

Order information:
USB hub 2.0 8-Port, switchable
Order number: 121142
Price: 1.550 €*

■ 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

Order information:
USB hub 3.0 8-Port, switchable
Order number: 122204
Price: 2.473 €*

MCD measurement and test systems are clearly superior over the human perception and even test the smallest components for optics, haptics and acoustics.

TEST SYSTEMS
FOR ELECTRONIC PRODUCTION

MCD Elektronik GmbH is a world leading supplier of measurement and test systems, committed to providing the world's most complex testing technology. MCD integrates R&D, sales, production and service into one, providing customized test and measurement solutions varying from FCT, BSCAN and EOLT systems to completely automated test lines for high-tech enterprises from various industries, such as automotive, medical and aerospace.

MCD was founded in 1983. Pioneering for more than 35 years of development and innovation, MCD has established global cooperations with many leading OEMs, Tier 1 and Tier 2 suppliers. It can provide its customers with a diversity of test solutions which combine mechanics, electronics and software fit to meet the customer's expectations.

MCD Control Systems

- Control of test systems simplified
- Control task distribution to sub-systems
- Stand-alone and built-in devices
- USB hubs with different USB standards and six or eight downstream ports
- Controls for driven components, endurance test programs, sensor actuator connections
- Handheld devices for testing of PWM- or analog controlled DUTs

Audio / Video Systems

- PC-based hardware components
- Functional interaction with MCD Software Solutions, e.g. TestManager CE
- Different versions as rack or desktop devices or with integrated PC
- Recording and acquisition of digital signals
- Generating of audio/video signals
- Analog, digital and optical in-/outputs
- Connecting of devices in series production

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