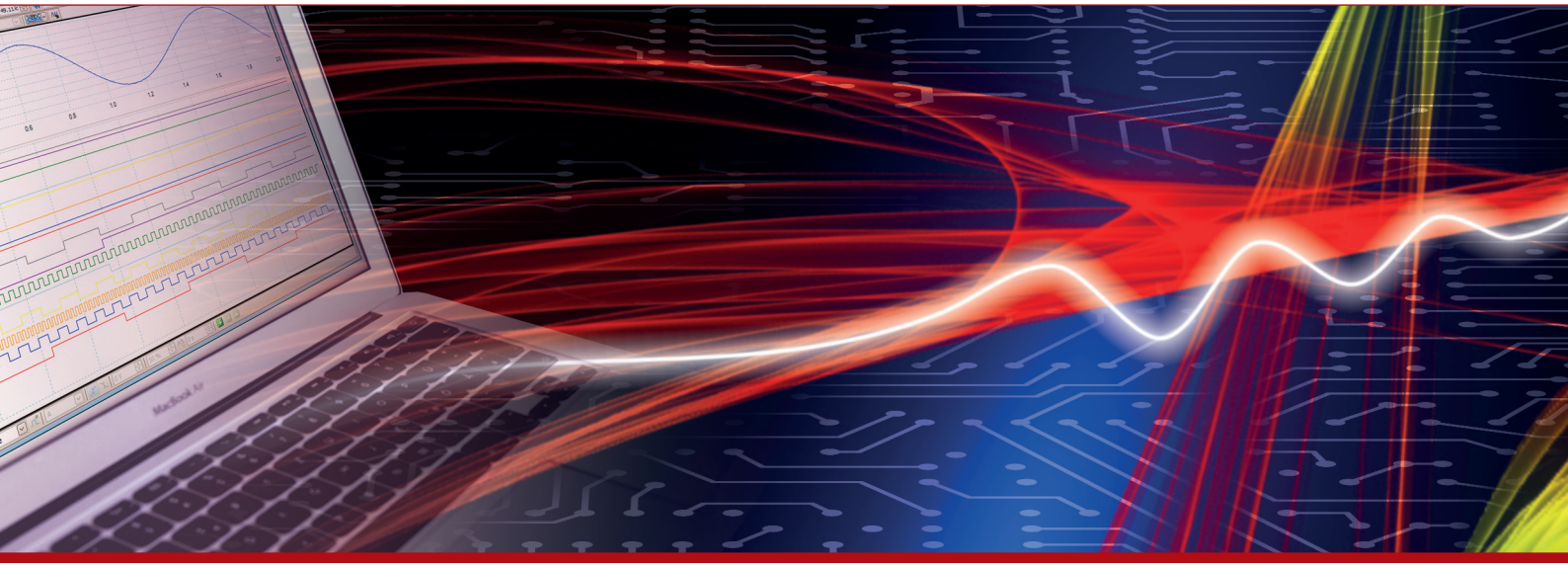
Product Datasheet - Technical Specifications



More information in our Web-Shop at ▸ **www.meilhaus.com** and in our download section.

Your contact

Technical and commercial sales, price information, quotations, demo/test equipment, consulting:

Tel.: **+49 - 81 41 - 52 71-0**

FAX: **+49 - 81 41 - 52 71-129**

E-Mail: **sales@meilhaus.com**

Downloads:
www.meilhaus.com/en/infos/download.htm

Meilhaus Electronic GmbH
Am Sonnenlicht 2
82239 Alling/Germany

Tel. **+49 - 81 41 - 52 71-0**
Fax **+49 - 81 41 - 52 71-129**
E-Mail **sales@meilhaus.com**

www.meilhaus.de

USB-488

USB-to-IEEE-488.2 GPIB Interface

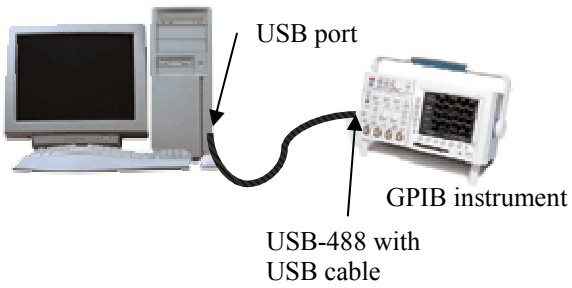
Features

The USB-488 is an IEEE 488.2 standard USB interface, and is supported under popular Microsoft® Windows® operating systems and LabVIEW™.

The USB-488 has the following features:

- Complete Talker/Listener/Controller functionality
- Controls up to 14 GPIB instruments
- USB 2.0 full-speed compliant – 12 Mb/s
- Data transfer rates up to 880 kB/s
- Built-in 2 m USB cable
- No GPIB cable required to connect to the first instrument
- Compact and lightweight
- Compatible with USB 1.1

The USB-488 interface converts any USB personal computer into an instrumentation control and data acquisition system.



Other resources

- The *GPIB-488 Software and Product Information* booklet explains how to install the software on the GPIB-488 software CD. This booklet is on the root of the software CD in GettingStartedGuide.pdf.
- The *GPIB-488 Programming Reference Manual* explains how to program the PCI-488 using the GPIB library software included with the board. This manual is installed with the software to the root folder in GPIBProgrammingReferenceManual.pdf.

Specifications

USB

Full-speed USB 2.0 signaling	12 Mb/s

IEEE 488 compatibility

Compatible with IEEE 488.1 and IEEE 488.2.

Maximum IEEE 488 bus transfer rate

Standard IEEE 488 handshake	880 kB/s

LED indicators

- **READY** LED – Lights up when the USB is configured.
- **ACTIVE** LED – Lights up when the USB is active.

Power consumption

USB self-powered device	
Maximum power consumption	200 mA

Physical dimensions

10.7 cm (L) x 6.6 cm (W) x 2.6 cm (H)
(4.2 in. x 2.6 in. x 1.0 in.)

I/O Connectors

GPIB	IEEE	488 standard 24-pin
USB		USB standard series A plug

Environment

- Operating specifications:

Ambient temperature	0 to 55 °C
Relative humidity	10 to 90%, noncondensing

- Storage specifications:

Ambient temperature	-20 to 70 °C
Relative humidity	5 to 95%, noncondensing

USB-488

Specifications

Document Revision 1.0, February, 2010

Specifications

IEEE 488

Compatible with IEEE 488.1 and IEEE 488.2

Table 1. IEEE 488 specifications

IEEE 488 bus transfer rate	880 kB/s maximum (standard IEEE 488 handshake). Actual rate depends on system configuration and instrument capabilities.
Connector type	IEEE 488 standard 24 pin

USB specifications

Table 2. USB specifications

USB device type	USB 2.0 (full-speed)
Device compatibility	USB 1.1, USB 2.0
	Self-powered, 200 mA consumption max
USB cable type	USB standard series A plug
USB cable length	2 meters.

I/O connectors

Table 3. I/O connector specifications

GPIB	IEEE 488 standard 24 pin
USB	USB standard series A plug.

LEDs

Table 4. LED indicators

READY LED	Lights when the USB is configured.
ACTIVE LED	Lights when the USB is active.

Power

Table 5. Power specifications

Power consumption	USB self-powered device 200 mA maximum

Environmental

Table 6. Environmental specifications

Operating temperature range	0 to 55 °C
Storage temperature range	-20 to 70 °C
Operating humidity	10 to 90% non-condensing
Storage humidity	5 to 95% non-condensing

Mechanical

Table 7. Mechanical specifications

Dimensions	10.7 cm (L) by 6.6 cm (W) by 2.6 cm (H) (4.2 in. by 2.6 in. by 1.0 in.)