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GPIB to USB Adapter

TEK-USB-488 Datasheet



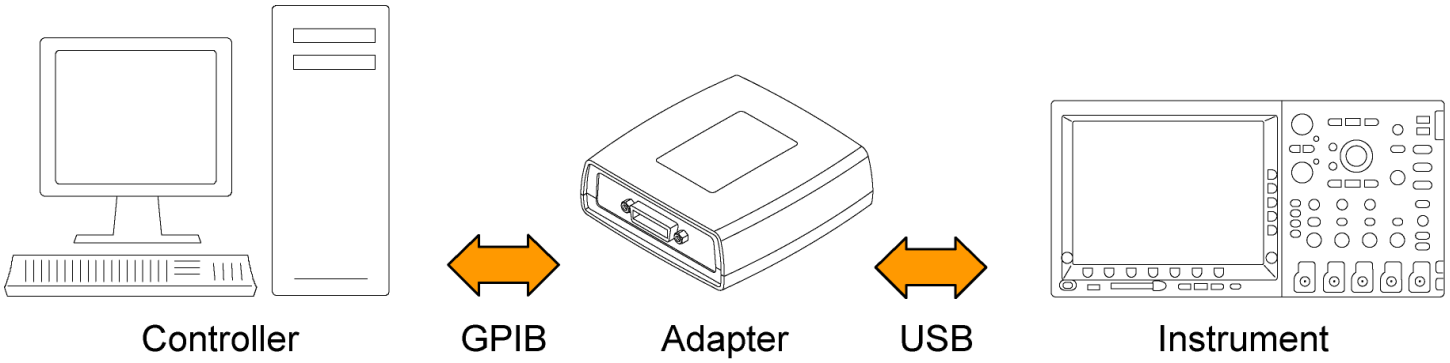
Features & Benefits

- Enables GPIB Control of Tektronix Instruments through the USB Port of Tektronix Instruments Compliant with USBTMC-USB488 Standards
- GPIB Primary Address is Assignable through the Host Tektronix Instrument
- Powered by USB Host or Optional External Power Supply
- LED Indicators Provide Power, Adapter Status, and USB Status
- Can be used in Rackmount Instrument Configurations

Applications

- Digital Design
- Research and Development
- Manufacturing Test
- ATE Environments
- Service and Support
- Education

Tektronix®



Adapter configuration to controller and instrument

Tektronix Instrument GPIB Adapter

The TEK-USB-488 Adapter enables communication between a GPIB bus controller, and the USB port of a USBTMC-USB488 compliant Tektronix instrument (for example, the DPO4000 Series Oscilloscopes).

Characteristics

System Requirements

Compatible with Tektronix instruments providing USBTMC-USB488 compliant USB ports supporting the protocol and USB extensions required for setting the adapter's GPIB primary address. For USBTMC-USB488 instruments not supporting these USB extensions and protocol, the GPIB address defaults to address "1" and cannot be changed. Each adapter controls one instrument and does not support use of USB hubs.

IEEE 488 (GPIB) Compatibility

Physical Connection – GPIB interface connector provided on adapter.

Compliance – IEEE 488.2 compliant.

Other

Bulk Data Rate – Specification not available at this time.

Front-panel Indicators – Power Applied, Adapter Status, and USB Status.

Environmental

Temperature

Operating – 0 °C to +50 °C.

Nonoperating – -20 °C to +60 °C.

Humidity

Operating – (High) 40 °C to 50 °C, 10% to 60% relative humidity; (Low) 0 °C to 40 °C, 10% to 90% relative humidity.

Nonoperating – (High) 40 °C to 60 °C, 5% to 60% relative humidity; (Low) 0 °C to 40 °C, 5% to 90% relative humidity.

Altitude

Operating – Up to 3,000 m (10,000 ft.).

Nonoperating – Up to 15,240 m (50,000 ft.).

Regulatory

Emissions Compliance – EN 55011, Class A.

EMC Compliance – EN61326, Class A.

Compliance Labeling –
C-Tick (Australia / New Zealand).
CE (European Union).
WEEE (European Union).

Power

Source Power – Provided by USB host or orderable external power supply.

Power Consumption – Regulated at 5 VDC at <500 mA.

Physical Characteristics

Dimensions	mm	in.
Height	48.25	1.9
Width	133.35	5.25
Depth	133.35	5.25
Weight	**kg**	**lb.**
Net	0.56	1.25

Standard Warranty

One year parts and labor.

Ordering Information

TEK-USB-488
GPIB (IEEE488.2) to USB Adapter
Includes: Adapter, 2 USB cables, user manual.

Service Options
Opt. R3 – Repair Service 3 years including warranty.
Opt. R5 – Repair Service 5 years including warranty.
Opt. SILV100 – Standard Warranty Extended to 5 Years.

Recommended Accessories
USB Host-to-Device Cable, 1 m Length – Order 174-4401-xx.
GPIB Cable, 1 m Length – Order 012-0991-01.
GPIB Cable, 2 m Length – Order 012-0991-xx.
5 V ±5% 500 mA Power Supply*1 – Order 119-8724-xx.
*1 Does not include power cord which must be ordered separately from International Power Plugs listing.

International Power Plugs
US Power – Order 161-0066-xx.
Universal Euro Power – Order 161-0066-09.
United Kingdom Power – Order 161-0066-10.
Australia Power – Order 161-0066-13.
Switzerland Power – Order 161-0154-xx.
Japan Power – Order 161-0342-xx.
China Power – Order 161-0304-xx.
India, South Africa Power – Order 161-0400-xx.

CE

Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.

GPIB IEEE-488

Product(s) complies with IEEE Standard 488.1-1987, RS-232-C, and with Tektronix Standard Codes and Formats.

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For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit **www.tektronix.com**

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