

Product Datasheet - Technical Specifications



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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 | Tel. **+49 - 81 41 - 52 71-0**
Am Sonnenlicht 2 | Fax **+49 - 81 41 - 52 71-129**
82239 Alling/Germany | E-Mail sales@meilhaus.com

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Product Overview

T2R1000 active probe adaptor can be used to connect the TekProbe-BNC level II probe with **RIGOL** DS6000 series or MSO4000/DS4000 series digital oscilloscope.

T2R1000 converts the TekProbe-BNC interface to RIGOL-Probe interface and supplies power, calibration and DC offset adjustment function for probe.



To TekProbe-BNC Interface



To RIGOL-Probe Interface

Tektronix Active Probes Supported by T2R1000

Single Ended Active Voltage Probes

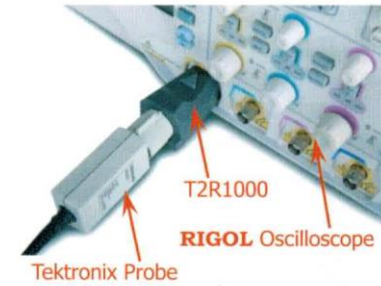
Model	Bandwidth	Attenuation	Support DC offset adjustment?
P6205	750MHz	10:1	No
P6243	1GHz	10:1	No
P6245	1.5GHz	10:1	Yes
P6241	4GHz	10:1	Yes
P6249	4GHz	10:1	Yes

Differential Active Voltage Probes

Model	Bandwidth	Attenuation	Support DC offset adjustment?
P5205	100MHz	50:1/500:1 optional	Yes
P5210	50MHz	100:1/1000:1 optional	Yes
P6246	400MHz	10:1/1:1 optional	Yes
P6247	1GHz	10:1/1:1 optional	Yes
P6248	1.5GHz	10:1/1:1 optional	Yes
P6250	500MHz	50:1/5:1 optional	Yes
P6251	1GHz	50:1/5:1 optional	Yes

Connection Method

Firstly, connect the probe with TekProbe-BNC interface to T2R1000. Then, connect the other terminal of T2R1000 to the analog input terminal of the oscilloscope with RIGOL-Probe, as shown in the right figure.



Selecting the corresponding probe model from the oscilloscope menu, the scope will automatically set the input impedance, attention ratio and unit. In additional, connecting the probe input terminal to ground and selecting self-calibration function from the oscilloscope menu can provide zero offset calibration function for the probes which support calibration function.

Current Probes

Model	Bandwidth	Attenuation	Description
TCP202	50MHz	10A/V	AC/DC current probe

Optical Probes

Model	Bandwidth	Attenuation
P6701B	1GHz	0.001W/V
P6703B	1.2GHz	0.001W/V
P6711	250MHz	0.0002W/V
P6713	300MHz	0.0002W/V

RIGOL Oscilloscope Supported by T2R1000

If you have purchased DS6000 or MSO4000/DS4000 series digital oscilloscope, before using T2R1000, you need to update your software to or above the version listed in the table below.

Series	Model	Software Version
DS6000	DS6062/DS6064/DS6102/DS6104	00.01.05.00.00 or above
DS4000	DS4014/DS4024/DS4034/DS4054/ DS4012/DS4022/DS4032/DS4052	00.02.01.00.04 or above
MSO4000	MSO4014/MSO4024/MSO4034/ MSO4054/MSO4012/MSO4022/ MSO4032/MSO4052	

Specifications

Bandwidth	>4GHz (T2R1000 only)
Power Supplies	±5V, ±15V
Max Output Current	150mA
DC Offset Range	<±1V (from the output terminal of T2R1000)
Max Input Voltage	42Vpk, 30Vrms
Temperature	Operation: 0°C-50°C; Non-operation: -40°C-70°C
Humidity	95%RH at 50°C
Altitude	4000m
Size	60mm (length)×33.7mm (width)×29.5mm (Depth)
Weight	132g (with package); 41g (without package)