

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

RIGOL

Rigol RPL2316 Standard Logic Probe

Rigol RPL2316 16 Channel Logic Probe for MSO4000 and MSO2000A The RPL2316 is a high performance 16 channel logic probe that connects digital buses and signals to Rigol MSO4000 and MSO2000A mixed signal oscilloscopes. Sixteen digital channels are split into two branch headers (channel groups) D0 to D7 and D8 to D15. Each header provides 8 signal channels plus 12 ground channels. Color and number labels identify channels. Eight signal leads and 12 ground leads per header support flexible grounding for signal integrity. The RPL2316 is a high performance 16 channel logic probe that connects digital buses and signals to Rigol MSO4000 and MSO2000A mixed signal oscilloscopes. Sixteen digital channels are split into two branch headers (channel groups) D0 to D7 and D8 to D15. Each header provides 8 signal channels plus 12 ground channels. Color and number labels identify channels. Eight signal leads and 12 ground leads per header support flexible grounding for signal integrity. Mixed signal capture on MSO2000A series (standard kit)



MODEL

Rigol RPL2316

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

RPL2316

LISTING

<https://aumictechlabs.com/products/rpl2316-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rigol RPL2316 Standard Logic Probe is a 16-channel digital probe that expands the measurement capabilities of compatible Rigol Mixed Signal Oscilloscopes. It acquires and displays logic-level signals from digital circuits, enabling engineers and technicians to debug and analyze complex digital systems. The probe connects directly to MSO digital input terminals and features

dual branch headers with 8 signal channels each, plus extensive ground connections for reliable signal integrity.

Technical Specifications

Channels: 16 digital input channels organized as two headers (D0-D7, D8-D15)

Signal leads: 8 per header

Ground leads: 12 per header

Input impedance: 101 k Ω

Input capacitance: Approximately 8 pF

Maximum input voltage swing: ± 40 V

Minimum input voltage swing: 500 mV

Minimum detectable pulse width: 5 ns

Threshold range: ± 20 V

Threshold accuracy: ± 100 mV + 3% of threshold setting

Cable length: Approximately 100 cm

Lead length: Approximately 15 cm

Key Features

Dual-header configuration enables efficient layout and connection to large pin arrays

Color-coded channels with numeric labeling simplify signal identification

High ground density (12 grounds per header) minimizes noise coupling

Dual connection methods: direct pin-row contact or individual grabber-equipped leads

Wide voltage threshold range with ± 100 mV base accuracy

Fast pulse detection capability (5 ns minimum width)

Typical Applications

Digital circuit debugging and signal acquisition

Multi-channel bus and protocol monitoring

Timing analysis across wide data paths

Logic-level troubleshooting in embedded systems

Compatibility & Integration

The RPL2316 interfaces with Rigol MSO series oscilloscopes: MSO8000, MSO7000, MSO4000, and MSO2000A. Package includes one parallel data cable, active logic head, 20 data leads (two 10-lead sets), 20 grabbers, and soft carrying bag. Operating temperature 0°C to 50°C; storage temperature -20°C to 60°C.

RPL2316 Characteristics / Specifications

PARAMETER	VALUE
Model	RPL2316
Manufacturer	Rigol
Instrument Type	16 channel logic probe
Alias	RPL 2316; RIGOL RPL2316
Host Oscilloscopes	MSO4000 series and MSO2000A series
Input Channels	16
Channel Groups	D0 to D7 and D8 to D15
Ground Channels Per Header	12
Threshold Range	plus/minus 20 V
Threshold Accuracy	plus/minus 100 mV plus 3 percent of threshold setting
Maximum Voltage Swing	plus/minus 40 V
Minimum Voltage Swing	500 mV
Minimum Detectable Pulse Width	5 ns
Input Impedance	101 kOhm
Probe Load	about 8 pF
Cable Length	about 100 cm
Lead Length	about 15 cm
Operating Temperature	0 C to 50 C
Operating Humidity	0 to 80 percent RH
Storage Temperature	minus 20 C to 60 C
Storage Humidity	0 to 90 percent RH
Main Cable Quantity	1
Logic Probe Adaptor Quantity	2
Lead Quantity	20 (2 times 10)
Grabber Quantity	20

PARAMETER	VALUE
User Guide	Chinese and English
Carrying Bag	RPL2316 soft bag included
Digital Sample Mate MSO2000A	1 GSa/s (8 ch) or 500 MSa/s (16 ch)
Digital Min Pulse MSO2000A	5 ns Notes Specs from the Rigol RPL2316 Logic Probe User Guide. Confirm host MSO4000 versus MSO2000A digital connector. This is the logic probe accessory, not a standalone analyzer.
Humidity	0 to 80 percent RH

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 60 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Humidity	0 to 80 percent RH
Operating Humidity	0 to 80 percent RH
Storage Humidity	0 to 90 percent RH
Main Cable Quantity	1
Logic Probe Adaptor Quantity	2
Lead Quantity	20 (2 times 10)
Grabber Quantity	20
User Guide	Chinese and English
Carrying Bag	RPL2316 soft bag included
Digital Sample Mate MSO2000A	1 GSa/s (8 ch) or 500 MSa/s (16 ch)
Digital Min Pulse MSO2000A	5 ns Notes Specs from the Rigol RPL2316 Logic Probe User Guide. Confirm host MSO4000 versus MSO2000A digital connector. This is the logic probe accessory, not a standalone analyzer.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

performance 16 channel logic probe that connects digital buses and signals to Rigol MS04000 and MS02000A mixed signal oscilloscopes. Sixteen digital channels are split into two branch headers (channel groups) D0 to D7 and D8 to D15. Each header provides 8 signal channels plus 12 ground channels. Color and number labels identify channels. Eight signal leads and 12 ground leads per header support flexible grounding for signal integrity.

Applications

Mixed signal capture on MS04000 series

Mixed signal capture on MS02000A series (standard kit)

Parallel bus and embedded digital debug

Logic threshold measurements up to plus/minus 20 V

Replacement logic probe for MS02000A RPL2316 accessory

Key Features

Two channel groups with independent headers

Threshold range plus/minus 20 V with plus/minus 100 mV plus 3 percent accuracy

Minimum detectable pulse 5 ns

About 101 kOhm input impedance and about 8 pF probe load

About 100 cm main cable and about 15 cm leads

Soft carrying bag, 20 grabbers, and two adaptors in the kit

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	RPL2316
Manufacturer	Rigol
Instrument Type	16 channel logic probe
Alias	RPL 2316; RIGOL RPL2316
Host Oscilloscopes	MS04000 series and MS02000A series
Input Channels	16
Channel Groups	D0 to D7 and D8 to D15
Ground Channels Per Header	12
Threshold Range	plus/minus 20 V
Threshold Accuracy	plus/minus 100 mV plus 3 percent of threshold setting
Maximum Voltage Swing	plus/minus 40 V
Minimum Voltage Swing	500 mV
Minimum Detectable Pulse Width	5 ns
Input Impedance	101 kOhm
Probe Load	about 8 pF
Cable Length	about 100 cm

PARAMETER	VALUE
Lead Length	about 15 cm
Operating Temperature	0 C to 50 C
Operating Humidity	0 to 80 percent RH
Storage Temperature	minus 20 C to 60 C
Storage Humidity	0 to 90 percent RH
Main Cable Quantity	1
Logic Probe Adaptor Quantity	2
Lead Quantity	20 (2 times 10)
Grabber Quantity	20
User Guide	Chinese and English
Carrying Bag	RPL2316 soft bag included
Digital Sample Rate MS02000A	1 GSa/s (8 ch) or 500 MSa/s (16 ch)
Digital Min Pulse MS02000A	5 ns

Notes

Specs from the Rigol RPL2316 Logic Probe User Guide. Confirm host MS04000 versus MS02000A digital connector. This is the logic probe accessory, not a standalone analyzer.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.