

PBDH0150 (701927)

150 MHz Bandwidth / High-Voltage Differential Probe

New

Easily perform floating and differential voltage measurements in today's challenging power electronics and mechatronic applications



Features:

■ **Max. 1400 Vpeak, 150 MHz Bandwidth**

- 1400 Vpeak capability is suitable for un-grounded and floating voltage measurements in power electronics and mechatronics applications including inverters, motor drives, and power supplies.
- Extended 150 MHz bandwidth supports most modern high-voltage applications.

■ **1 meter Extension Lead Set**

- 1 m long extension lead pair is included as a standard accessory. ^{(*)1}
- Enables flexible probing in various situation such as environmental chamber measurements.
- Excellent bandwidth is maintained when using the extended lead set (100 MHz bandwidth, typical).
- Designed with consideration for ringing control.

■ **Compact Design**

- Reduced size and weight over comparable probes (50% reduced volume over the Yokogawa 700924).
- Stackable design preserves valuable bench-top space in multi-channel applications.



■ **Automatic Attenuation Detection and Integral Probe Power Connector**

- Switchable attenuation ratio (50:1 and 500:1) supports a wide range of voltage measurements.
- Oscilloscope attenuation ratio auto-detection is supported, reducing human error. ^{(*)2}
- Integral probe power connector eliminates power cable tangles in multi-channel applications.

■ **Exchangeable Pincher Tips**

- Standard pincher tips are exchangeable a wide variety of 4mm safety adapters (sold separately).

(*)1 Bandwidth specification is 100 MHz (-3dB, Typical) when using the extension lead.

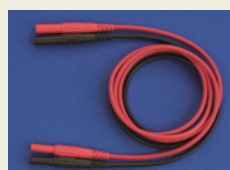
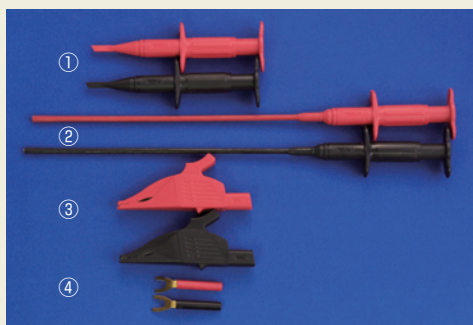
(*)2 Some models and firmware versions do not support attenuation auto-detection of the flip-switch after connecting probe.

Probe Tip Versatility:

Supports a wide variety of optional 4mm safety adapters. ^{(*)3}

- ① Standard Pincher Tips (included)
- ② 701906 Long Test Clips
- ③ 701954 Alligator Clips (Dolphin type)
- ④ 758921 Fork Terminal Adapters

And others.



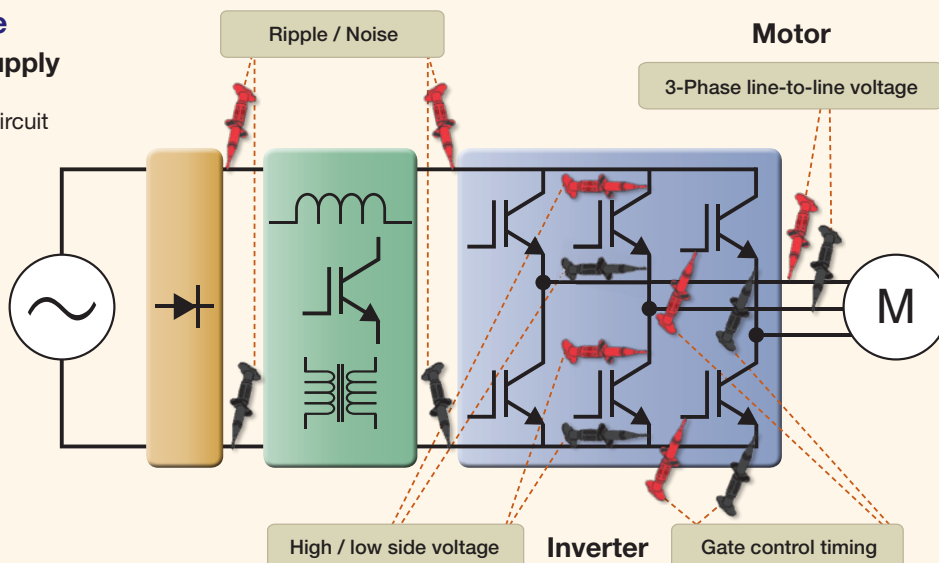
1m extension lead set (included)

(*)3 Bandwidth and Maximum Input Voltage specifications can be degraded when using adapters. Please refer to the instruction manual for detailed information.

Enables single-ended oscilloscopes to safely perform floating-voltage measurements

● Example

Power supply
PFC
Switching circuit



Probe Model

Name	Model
PBDH0150 Differential Probe	701927

Standard contents

- Probe
- Pincher Tip
- Extension Lead (1 meter)
- 100 Ω Resistor Adapter (When not using extension lead)
- 150 Ω Resistor Adapter (When using extension lead)

Applicable models

- Yokogawa DL/DLM Series with Probe Interface including the following models: DLM2000, DL/DLM6000, DL9000, SB5000 series (Auto detection, power supply. Some restrictions depending on model.)

Specifications

- Bandwidth DC to 150 MHz (-3dB)
- Bandwidth w/ Extension Lead DC to 100 MHz (-3dB, Typical)
- Input Type Balanced Differential Input
- Attenuation Ratio 50:1, 500:1 - Switchable
- Input Resistance / Capacitance (Typical) 4MΩ +5pF (to ground)
- Allowable Differential Voltage 500:1 ±1400V (DC+ACpeak)
50:1 ±140V (DC+ACpeak)
- Allowable Common-Mode Voltage ±1400 V (DC+ACpeak) or 1000 Vrms
- Maximum Input voltage (to ground) ±1400 V (DC+ACpeak) or 1000 Vrms
- CMRR (Typical) -80dB @ 60Hz, -50dB @ 1MHz
- Output Impedance Used on a 1MΩ Input Oscilloscope
- Output Noise 50mVrms(50:1), 300mVrms(500:1)
- DC Gain Accuracy ±2 % (Common-Mode Voltage ≤ 400 V and ≥ -400 V)
±3 % (Common-Mode Voltage ≤ 1000 V and ≥ -1000 V)

YOKOGAWA

Yokogawa Meters & Instruments Corporation

YOKOGAWA METERS & INSTRUMENTS CORPORATION

Global Sales Dept.

Tachihi Bld. No.2, 6-1-3 Sakaecho, Tachikawa-shi, Tokyo, 190-8586 Japan

Phone: +81-42-534-1413 Facsimile: +81-42-534-1426

YOKOGAWA CORPORATION OF AMERICA

2 Dart Road, Newnan, GA. 30265-1094 U.S.A.
Phone: +1-770-253-7000 Facsimile: +1-770-254-0928

YOKOGAWA EUROPE B. V.

Euroweg 2 3825 HD Amersfoort, THE NETHERLANDS
Phone: +31-88-4641000 Facsimile: +31-88-4641111

YOKOGAWA ENGINEERING ASIA PTE. LTD.

5 Bedok South Road, Singapore 469270 SINGAPORE
Phone: +65-6241-9933 Facsimile: +65-6241-2606

YOKOGAWA AMERICA DO SUL LTDA.

Praca Acapulco, 31-Santo Amaro, Sao Paulo/SP, BRAZIL CEP-04675-190
Phone: +55-11-5681-2400
Facsimile: +55-11-5681-4434

Yokogawa Electric Korea Co., Ltd.

C&M Sales Seoul Office
Rm.1301~5, Kolong digital tower Bldg, 106-1,
Yangpyeongdong-5Ga, Yeongdeungpo-Gu, Seoul, 150-866, Korea
Phone: +82-2-2628-3810 Facsimile: +82-2-2628-3899

YOKOGAWA AUSTRALIA PTY. LTD.

Tower A/112-118 Talavera Road Macquarie Park, NSW 2113
Australia
Phone: +61-2-8870-1100 Facsimile: +61-2-8870-1111

YOKOGAWA INDIA LTD.

Plot No. 96, Electronic City Complex, Hosur Road, Bangalore 560100, INDIA
Phone: +91-80-4158-6000 Facsimile: +91-80-2852-1442

YOKOGAWA SHANGHAI TRADING CO., LTD.

4F Tower D, Cartelo Crocodile Building, No.568 West Tianshan
Road, Shanghai, CHINA
Phone: +86-21-6239-6363 Facsimile: +86-21-6880-4987

YOKOGAWA MIDDLE EAST B. S. C.(C)

P.O.BOX 10070, Manama, Building 577, Road 2516,
Busaiteen 225, Muharraq, BAHRAIN
Phone: +973-17-358100 Facsimile: +973-17-336100

YOKOGAWA ELECTRIC CIS LTD.

Grokholskiy per. 13, Build. 2, 4th Floor, 129090, Moscow
RUSSIAN FEDERATION
Phone: +7-495-737-7868 Facsimile: +7-495-737-7869

Represented by :