

Dual Verification Fixture

PRV-913B

Data Sheet

Verify the proper functioning of PRF-912B and PRF-922B Probe Sets

The PRV-913B's main purpose is to verify that a Prostat® micro probe resistance fixture – either PRF-912B Miniature Concentric Ring or PRF-922B Miniature Two-Point Probe – physically functions as intended. That is, the spring loaded contacts compress and extend freely and are electrically connected to the probe's circuitry. Properly used, the PRV-913B insures that all PRF-912B & PRF-922B spring loaded test probes make defined contact with the reference surface inside the verification fixture. If good contact is made, the fixture provides a 1-megohm (1.0×10^6 ohms) reference measurement ($\pm 1\%$) with a nominal variance of $< 2\%$, i.e., 9.98×10^5 to 1.02×10^6 ohms.

Approximately 2 inches (50.8mm) square by 1.12 inches (28.5mm) thick, the PRV-913B consists of a high quality black anodized housing and high resistance circuit board. One side of the PRV-913B circuit assembly incorporates an array of ten (10) each 10 megohm precision ($\pm 1\%$) resistors in parallel, connecting the center pad to each of the ten peripheral trace pads. It provides a specific reference resistance of 1.0×10^6 ohms ($< \pm 5\%$) for the Concentric Ring side of the fixture. The 2-Point Probe side of the fixture incorporates a 1.0×10^6 ohms ($< \pm 1\%$) resistor connected across two test pads.





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Specifications

Resistors - Concentric Ring Side

Fixture Resistance	1.0x10 ⁶ ohms <±5%
Number of Resistors	10 each 10 megohm (1.0x10 ⁷)
Resistor Tolerances	±1%
Power	Not applicable

Resistors - 2-Point Side

Fixture Resistance	1.0x10 ⁶ ohms <±5%
Number of Resistors	1 each 1 megohm (1.0x10 ⁶)
Resistor Tolerances	±1%
Power	Not applicable

Physical Specifications

Finish	Black anodized
Contact Pads	Copper substrate with nickel and hard gold plating
Dimensions	2.0" x 2.0" x 1.12" (50.8 mm x 50.8 mm x 28.5 mm)
Weight	5.29 oz (150g)

Phone +1 (630) 238-8883 Fax +1 (630) 238-9717

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