

# 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 ( $1.0 \times 10^6$  ohms) reference measurement ( $\pm 1\%$ ) with a nominal variance of  $< 2\%$ , i.e.,  $9.98 \times 10^5$  to  $1.02 \times 10^6$  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  $1.0 \times 10^6$  ohms ( $< \pm 5\%$ ) for the Concentric Ring side of the fixture. The 2-Point Probe side of the fixture incorporates a  $1.0 \times 10^6$  ohms ( $< \pm 1\%$ ) resistor connected across two test pads.



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Data Sheet

Specifications

Resistors - Concentric Ring Side	
Fixture Resistance	1.0x10 <sup>6</sup> ohms <±5%
Number of Resistors	10 each 10 megohm (1.0x10 <sup>7</sup> )
Resistor Tolerances	±1%
Power	Not applicable

Resistors - 2-Point Side	
Fixture Resistance	1.0x10 <sup>6</sup> ohms <±5%
Number of Resistors	1 each 1 megohm (1.0x10 <sup>6</sup> )
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)

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