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**Data Sheet**

August 14, 2026

BOONTON

## Boonton 92EA RF Millivoltmeter

The Boonton 92EA is a digital RF millivoltmeter in the Boonton 92E family for RF voltage measurements with probe based sensing. OEM Boonton RF voltmeter literature emphasizes broadband probe measurements and digital readout for RF level troubleshooting and calibration support. RF voltage measurements on transmitters and amplifiers, probe based broadband level checks, and laboratory RF millivolt measurements where a dedicated RF voltmeter is preferred over a power sensor. Compatible with Boonton RF probe accessories on family RF voltage measurements on transmitters and amplifiers, probe based broadband level checks, and laboratory RF millivolt measurements where a dedicated RF voltmeter is preferred over a power sensor. Compatible with Boonton RF probe accessories on family Instrument Family: Boonton 92EA RF millivoltmeter Probe Compatibility: Boonton 92E family probes class



MODEL

**Boonton 92EA**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**92EA**

LISTING

<https://aumictechlabs.com/products/92ea-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

### This unit

The Boonton 92EA RF millivoltmeter is a solid-state instrument designed for accurate voltage measurements across a wide frequency range. It is recognized for its high sensitivity, accuracy, low noise, and excellent stability, making it a reliable choice for various RF applications. This device is capable of measuring voltages from 200  $\mu$ V to 3 V, with an optional divider extending the range to 300 V. Its calibrated frequency range is from 10 kHz to 1.2 GHz, with uncalibrated response extending beyond 8 GHz. The instrument provides true RMS response for input signals

up to 30 millivolts, and it is calibrated to indicate RMS of a sine wave above this level. A linear DC output is available for driving recorders or remote indicators. The Boonton 92EA features a 50-ohm input impedance and offers a full range of 50-ohm and 75-ohm accessories. It can be rugged and cost-effective, with a user-friendly interface and precise measurement capabilities.

**Technical Specifications**

- \* Manufacturer: Boonton Model: 92EA Type: RF Millivoltmeter
- Voltage Measurement Range: \* 200  $\mu$ V to 3 V (Standard) \* Up to 300 V (with optional divider) \* Indicates down to 100  $\mu$ V
- Frequency Range: \* Calibrated: 10 kHz to 1.2 GHz \* Uncalibrated response: beyond 8 GHz \* Option -16: 10 Hz to 100 MHz \* Optional probe (Model 91-4C) frequency range: 1 kHz to 250 MHz
- Dynamic Range: -61 dBm to +23 dBm
- Input Impedance: 50 ohms
- Display: Large analog scale, RMS volts and dBm
- Response: True RMS response below 30 mV (gradually approaching peak-to-peak above this level, calibrated as RMS of sine wave)
- Accuracy:  $\pm 2\%$  (as specified by some sources)
- Stability: Excellent stability
- Noise: Low noise design
- Output: Linear DC output proportional to RF input voltage
- Power Consumption: 100, 120, 220, 240 VAC  $\pm 10\%$ , 50 to 400 Hz
- Operating Temperature: 0° to 50°C / 0° to 55°C
- Storage Temperature: -55° to +75°C
- Environmental Conformance: Conforms to Mil-T-28800D for type III, Class 5 style E equipment
- Interfaces \* Analog Output: Yes
- Input/Output Connections: Made at the card-edge connector at the rear of the instrument
- Physical Characteristics \* Dimensions: 19" x 3.5" x 17" Weight: 10 lbs
- Construction: Rugged, solid-state instrument
- Mounting: Can be mounted in a standard 19-inch rack using an optional kit
- Accessories \* Standard Supplied Accessories: \* Model 952001-02A R.F. Probe with low noise cable and connector \* Model 952002-01A 50 Ohm BNC Adapter \* Model 952004-01A Probe Tip (removable) with grounding clip lead
- Optional Accessories: \* 100:1 divider for up to 300 V measurements up to 700 MHz \* Model 952003 Tee Adapter for through-line voltage measurements \* Model 952014 50 Ohm Load for terminated voltage measurements \* Model 91-4C R.F. Probe (1 kHz to 250 MHz) \* Rack mounting kit
- Other: Full range of 50 ohm and 75 ohm accessories available
- Compatibility \* System Compatibility: 50-ohm systems with appropriate adapters

**Applications**

The Boonton 92EA RF millivoltmeter is suitable for a variety of RF testing and measurement applications, including but not limited to: Telecommunications Aerospace Research and Development

**Ensuring the quality and performance of RF systems and devices**

**Why Choose Aumictech for Boonton 92EA?** At Aumictech, we specialize in supplying high-end RF test and measurement equipment. Whether you need accurate voltage measurements from 10 kHz to 1.2 GHz, a wide dynamic range for complex signal analysis, or excellent stability for critical applications, our team ensures the Boonton 92EA delivers maximum performance for your laboratory or enterprise procurement needs.

# 92EA Characteristics / Specifications

| PARAMETER              | VALUE                                      |
|------------------------|--------------------------------------------|
| Instrument Family      | Boonton 92EA RF millivoltmeter             |
| Measurement Quantity   | RF voltage                                 |
| Readout                | digital display class                      |
| Sensor Type            | RF probe class                             |
| Frequency Coverage     | probe dependent                            |
| Voltage Range          | probe and range dependent                  |
| Input Coupling Class   | RF probe input                             |
| Form Factor            | benchtop                                   |
| AC Powered             | yes                                        |
| Units Class            | V mV class RF                              |
| Range Selection        | multi range class                          |
| Zero Adjust            | yes class                                  |
| Probe Compatibility    | Boonton 92E family probes class            |
| Remote Interface Class | configuration dependent on 92E options     |
| Display Digits Class   | digital meter class                        |
| Operating Mode         | RF millivoltmeter                          |
| Calibration Path       | probe and instrument paired class          |
| Protection Class       | probe overload limits per probe literature |
| Bandwidth Class        | broadband RF probe class                   |
| Series Family          | Boonton 92E                                |
| Manufacturer           | per instrument faceplate branding          |
| Documentation Basis    | OEM datasheet or operating manual family   |
| Bandwidth              | Class: broadband RF probe class            |

# 92EA Specifications

| PARAMETER                      | VALUE                                             |
|--------------------------------|---------------------------------------------------|
| Boonton 92EA RF Millivoltmeter | Overview                                          |
| Probe based RF voltage sensing | Broadband RF measurement class                    |
| Technical Specifications       | Instrument Family: Boonton 92EA RF millivoltmeter |

# 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.

| Specifications                                                                                                                                                                                                |                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Specifications                                                                                                                                                                                                |                                            |
| PARAMETER                                                                                                                                                                                                     | VALUE                                      |
| Instrument Family                                                                                                                                                                                             | Boonton 92EA RF millivoltmeter             |
| Measurement Quantity                                                                                                                                                                                          | RF voltage                                 |
| Readout                                                                                                                                                                                                       | digital display class                      |
| Sensor Type                                                                                                                                                                                                   | RF probe class                             |
| Frequency Coverage                                                                                                                                                                                            | probe dependent                            |
| Voltage Range                                                                                                                                                                                                 | probe and range dependent                  |
| Input Coupling Class                                                                                                                                                                                          | RF probe input                             |
| Form Factor                                                                                                                                                                                                   | benchtop                                   |
| AC Powered                                                                                                                                                                                                    | yes                                        |
| Units Class                                                                                                                                                                                                   | V mV class RF                              |
| Range Selection                                                                                                                                                                                               | multi range class                          |
| Zero Adjust                                                                                                                                                                                                   | yes class                                  |
| Probe Compatibility                                                                                                                                                                                           | Boonton 92E family probes class            |
| Remote Interface Class                                                                                                                                                                                        | configuration dependent on 92E options     |
| Display Digits Class                                                                                                                                                                                          | digital meter class                        |
| Operating Mode                                                                                                                                                                                                | RF millivoltmeter                          |
| Calibration Path                                                                                                                                                                                              | probe and instrument paired class          |
| Protection Class                                                                                                                                                                                              | probe overload limits per probe literature |
| Bandwidth Class                                                                                                                                                                                               | broadband RF probe class                   |
| Series Family                                                                                                                                                                                                 | Boonton 92E                                |
| Manufacturer                                                                                                                                                                                                  | per instrument faceplate branding          |
| Documentation Basis                                                                                                                                                                                           | OEM datasheet or operating manual family   |
| Notes                                                                                                                                                                                                         |                                            |
| Identity and capability rows from Boonton 92E/92EA RF millivoltmeter product literature. Exact frequency and voltage span are probe dependent; confirm probe model and calibration certificate with the unit. |                                            |

### Available from Aumictech

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

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

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.