

Electric and Magnetic Field Measurement

8700 Series Survey System



Probe Features

- ◆ 3 kHz to 100 GHz
- ◆ Electric and Magnetic Fields
- ◆ Flat Response and Shaped to International Standards
- ◆ Isotropic Response
- ◆ RMS Average Detection
- ◆ Near Field or Far Field
- ◆ Calibration Data Supplied – Standard

System Features

- ◆ All Probes Interchangeable with All Meters
- ◆ State-of-the-Art Model 8718B Survey Meter Makes Complex Measurements Simple
- ◆ Model 8715 Meter – makes spatial-averaging simple and fast, easy to use and compact
- ◆ Model 8712 Meter – powerful, extremely easy to use, and compact

Description

The 8700 Series is the most accurate non-ionizing radiation survey system available. It provides the broadest frequency coverage of electric and magnetic fields. Both flat response probes and probes shaped to international standards are available. All probes contain DC amplifiers in the handle and are calibrated independently of the meter.

Any 8700 Series probe can be used with any 8700 Series meter and still maintain total calibration. Existing owners of 8700 Series components will find that Models 8718,

8715, and 8712 Meters provide a way to significantly upgrade their system by simply replacing the meter.

Our “D” series probes offer wider bandwidths, direct connection capability, and more rugged construction.

Other system features include a unique flexible probe which allows precise detection of a radiation leak site inside densely packaged electronic systems and a fiber optic link for use at very low frequencies or for probes located a significant distance from the metering instrument.

The 8700 Survey System

Accurate, Modular, Versatile, Expandable

The 8700 Series Survey System is the ideal solution to surveying electromagnetic fields from 3 kHz to 100 GHz.

All you need is one meter and one probe to get started.

Meters



Model 8718B

- Single, 30dB Dynamic Range
- Read Out in Any Unit of Measure
- Built-in Data Logger Makes Site Mapping Fast and Easy
- Time and Spatial Averaging – Automatically
- Stored Data Downloads with Windows® Compatible Software (supplied)



Model 8715

- Spatially-Averaged Measurements Made Simple
- Powerful, Microprocessor Design
- Single, 30 dB Dynamic Range
- Large-Character Liquid Crystal Display (LCD)
- Displays Fields in mW/cm^2 , W/m^2 , V/m , A/m and Percent of International Standards
- Small Size, Ergonomic Design
- Lightweight



Model 8712

- Extremely Easy to Operate
- Powerful, Microprocessor Design
- Single, 30 dB Dynamic Range
- Large-Character Liquid Crystal Display (LCD)
- Displays Fields in mW/cm^2 , W/m^2 , V/m , A/m and Percent of International Standards
- Small Size, Ergonomic Design
- Lightweight

Probes

Select the Probe(s) Based On:

- Frequency
- Field (E or H)
- Field Strength
- Response (flat or shaped)

All Narda 8700 Series Probes Provide:

- Isotropic RMS detection even in complex, multi-signal environments
- Accurate measurements in the near field and far field

Electric Field Probes:

- 3 kHz to 100 GHz
- $0.05 \mu\text{W}/\text{cm}^2$ to $1000 \text{ mW}/\text{cm}^2$
- Both traditional flat-response and shaped-response models

Magnetic Field Probes

- 300 kHz to 300 MHz
- $10 \mu\text{W}/\text{cm}^2$ to $3000 \text{ W}/\text{cm}^2$ (shaped probe)
- Both traditional flat-response and shaped-response models

Select a Shaped Probe When:

- There are multiple emitters at frequencies where the standard has different exposure limits
- When the frequencies are classified
- When you want to read out in Percent of Standard

Measurements from 50 GHz to 100 GHz

- Certain Narda probes can be used well beyond their 50 GHz rating.

Fiber Optic Link And Cables*

Connect with a Cable or Fiber Optic Link:

- Cables can be part of the probe or separate
- Fiber optic links are ideal for:
 - EMC measurements
 - Measurements around low frequency antennas
 - Measurements with the probe up to 50 meters away from the meter

*Used with 8718B only



8700 Series Meter Comparison



FEATURE	8718B	8715	8712
LCD Display	4 line x 20 character	3½ digit + legends	3½ digit + legends
Character Height	0.16 in. / 4 mm	0.44 in / 11 mm	0.44 in / 11 mm
Backlight	Yes	No	No
Weight, approx.	3.0lb / 1.36 kg	1.4 lb / 0.64 kg	1.4 lb / 0.64 kg
Size	11.3" x 3.4" x 2.2" 29cm x 6 cm x 5.5 cm	7.8" x 2.5" x 1.8" 20 cm x 6.4 cm x 4.6 cm	7.8" x 2.5" x 1.8" 20 cm x 6.4 cm x 4.6 cm
Power Source	NiCad Battery	9V Alkaline	9V Alkaline
Operating Time	32 hrs/charge	50 hrs	50 hrs
Spatial Averaging	Yes	Yes	No
Time Averaging	Various Options	6 minutes	No
Data Logging	Yes	No	No
Audio Alarm, adjustable	Yes	Yes	Yes
Maximum Level Hold	Yes	Yes	Yes
Test Sources	Yes	No	No
Operating Temperature	-10°C to +50°C	-20°C to +50°C	-20°C to +50°C
RS232 Port	Yes	No	No
Recorder Output	Yes	No	No