THE MODEL 8718B SURVEY METER —
the world's most popular RF Survey meter just got more powerful and easier to operate*

FEATURES

- **Microprocessor-Based Design**
- **4 Line x 20 Character Display**
- **One-Touch Zero**
- **Displays Fields in Any Unit:** mW/cm^2, W/m^2, V/m, A/m, V^2/m^2, A^2/m^2, pJ/cm^3 **and Percent of International Standards**
- **Intuitive Operation with Help Screens**
- **Sophisticated Data-Logging**
- **Time and Spatial Averaging with Data Storage**
- **Fiber Optic and Cable Inputs**
- **RS232 Interface**
- **Calculates Percent of Standard**
- **Small, Lightweight, Ergonomic Design**

The revolutionary Model 8718B can satisfy the needs of almost anyone that needs to measure electromagnetic fields

Basic measurements made simple
Advanced measurements unmatched by any other instrument

Already own a Model 8718? See page 90 to learn how it can be upgraded to take advantage of most of the new features of the 8718B.

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BASIC MEASUREMENT:

The 8718B was designed with the new or occasional user in mind so that the most common mistakes cannot happen.

- No range changes—the meter automatically displays a numeric value over the probe's entire measurement range.

- No confusing scales—simply select the correct probe (the meter even makes you double check) and the meter will display the correct reading

- No difficult zeroing procedure—just touch one key.

- No unit calculations—simply select the unit you want. Only units appropriate for the probe are allowed.

- No multiplication for probe correction factors—simply enter the frequency of the source you are surveying and the corrected measurement value is displayed.

ADVANCED MEASUREMENTS

Even the occasional user will be able to make use of the 8718B's advanced features. Experienced surveyors can do everything with a single instrument— accurately and in considerably less time than with any other instrument. The key is to access the menu system which is always available via one of the four function keys.

The menu options are:

DATA LOG
- Log data points with time & date stamp plus reference number
- Log spatially averaged points with reference number
- Continuous logging at various rates

TIME AVERAGE
- Turns fixed time averaging (various duration) on or off
- Select "standards" averaging that automatically selects the averaging period to match the standard or guidance selected

SPATIAL AVERAGING
- Turns the spatial averaging mode on or off

BATTERY/LITE
- Check battery charge status and estimated time remaining
- Turn the back light on or off

UNITS
- Select from all available units of measure for the probe in use.

RS232
- Change the baud rate.

CORRECTION FACTOR
- Enter a numeric probe correction factor so that the meter will automatically show the corrected value

SETTINGS
- Check or set the meter's internal clock
- Enter a temperature (used when meter and probe are in different locations)
- Clear the memory of logged data
- Set the function keys for either left or right-handed operation
- Turn the low level noise blanking feature on or off
- Adjust the display contrast

CABLE/FIBER OPTIC
- Select the meter input between cable and fiber optic receiver

LOCKOUT
- Locks the keypad so that settings cannot be accidentally changed, as when climbing

ALARM
- Turn the audio alarm on or off
- Set the alarm threshold
- Turn the variable alarm on and off

STANDARDS
- Select the standard or guidance that is referenced for various measurement options

BLANK
- Blanks the display and locks the keypad

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The 8718B has many unique features

DISPLAY

- 4 line x 20 character alphanumeric
- Backlighting allows use in dimly lit areas
- Anti-glare lens over display
- Fully shielded against strong electro-magnetic fields

KEYPAD

- Positive, tactile feel keys
- Key functions identified by color
- Function keys located for easy reach with thumb
- Special function keys quickly operate most common operations
- Help is always available via a dedicated key

BUILT-IN TEST SOURCES

- Microwave waveguide output tests all higher frequency probes
- Low frequency source injects signal directly into the detectors of probes via probe test points.

HOUSING

- Rugged, cast aluminum housing
- Fully shielded against strong electromagnetic fields

CABLE INPUT

- Quick-release connector compatible with all 8700D Series probes
- 8700 D-series probes can be connected directly or via included cable
- Older style 8700 series probes can be used with optional adaptor cable

FIBER OPTIC INPUT

- Built-in fiber optic receiver

RECORDER OUTPUT

- Analog output for various recording instruments

SHAPE

- Easy to hold and well balanced
- No sharp corners

STRAP

- Adjustable hook-and-loop allows user to hold without hand fatigue
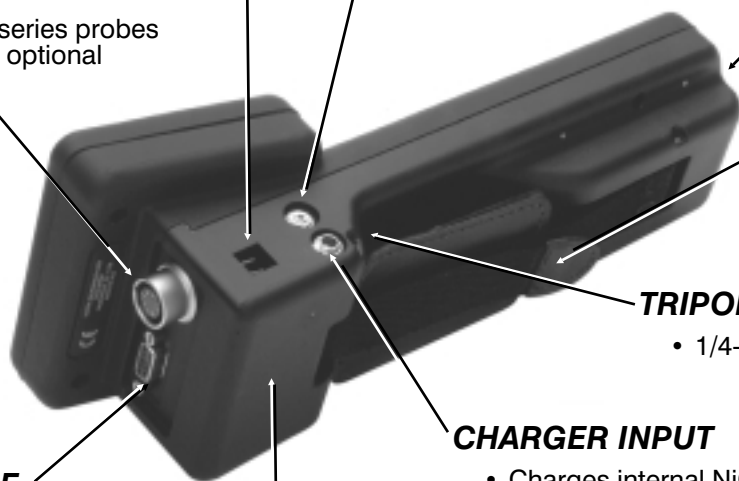
TRIPOD MOUNT

- 1/4-20 NC tapped hole tripod

RS232 INTERFACE

- Connect to PC to extract logged data or to input probe calibration information via Narda Windows compatible Interface Software
- Connect here for real time interface

CHARGER INPUT

- Charges internal NiCad battery
- Connect to mains for long term monitoring

AUDIO ALARM

- Alarms at precise, preset level
- Variable tone mode available
- Alarms if input exceeds probe's measurement range

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Electric and Magnetic Field Measurement

SPECIFICATIONS

|	
Model	8718B-XX[a]
Display	4 Line x 20 character alphanumeric dot matrix liquid crystal display with back light
Size	11.3" x 3.4" x 2.2" (28.9 cm x 6.0 cm x 5.5 cm) nominal.
Weight	3.0 lbs (1.36 kg)
Controls	22 Key membrane keypad
Input/Output	Probe cable input Fiber optic link input RS232 Input/Output Probe RF Test Sources (dual frequency) Recorder output
Zeroing	One touch auto-zero
Measurement Range	Single, 30 dB dynamic range Bar graph autoranges or select one of three 20 dB ranges Compatible with all Narda 8700 Series probes
Units	mW/cm^2, W/m^2, V/m, A/m, V^2/m^2, A^2/m^2, pJ/cm^3 and Percent of International Standards
Data Logging	Log any data point with time/date stamp from primary measurement mode Log with time/date stamp and reference number Continuous logging at user defined rate and duration for up to 24 hours
Averaging	Time and spatial averaging capabilities with variable time periods and update rates
Audible Alarms	Multilevel adjustable audio output proportional to field strength Probe overload warning
Maximum Level Hold	Continuously available
Battery	7.2V rechargeable, approximately 20 hours per charge (backlight off)
Built-in Test Features	Unit has dual frequency RF sources for system check and selfdiagnostics at turn on with continuous monitoring

Temperature
   Operating
   Non-Operating
	
	-10°C to +50°C
	-20°C to +70°C

Humidity	0% to 95%, non-condensing
Accessories Supplied	Storage case that holds meter and up to four probes and optional fiber optic link, charger, probe extension cable Model 8744-04, electric field attenuator Model 8713B, PC interface cable, manual, and Windows[TM] compatible software for survey and calibration data transfer
Optional Accessories	Tripod and Insulated Handle Adaptor, Insulated Handle/Tripod[b]

[a] Specify the appropriate charger and power cord option
[b] See page 79 for information regarding Narda's Rechargeable Battery Management Program

ORDERING INFORMATION

When ordering a Model 8718B meter, select the appropriate battery charger and line cord option and add it to the basic instrument model number. For 230V, 50-60 Hz options and line cord plug outlines, refer to page 53 of this catalog.

1 = 115V, 50/60 Hz charger with integral plug. No cord required (specify option 10).
2 = 230V, 50/60 Hz charger. Cord required .
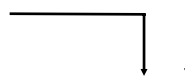
0 = No cord (115V charger)
1-9 = Various plug styles (230V charger)

8718B- __ __

Examples: 8718B-10 = 115V, integral plug (no line cord) for North America, Japan
8718B-23 = 230V, line cord for United Kingdom