The Model 8718B Survey Meter —

the world's most popular RF Survey meter is 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/cm², W/m², V/m, A/m, V²/m², A²/m², pJ/cm³ 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 who needs to measure electromagnetic fields

Basic measurements made simple
Advanced measurements unmatched by any other instrument



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

ΒΙ ΔΝΚ

Blanks the display and locks the keypad



The 8718B has many unique features

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

DISPLAY

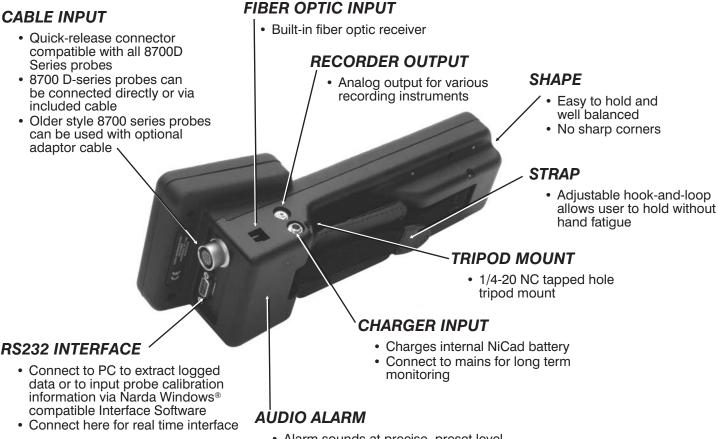
- 4 line x 20 character alphanumeric
- Backlighting allows use in dimly lit areas
- Anti-glare lens over display
- Fully shielded against strong electromagnetic fields



HOUSING

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

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



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

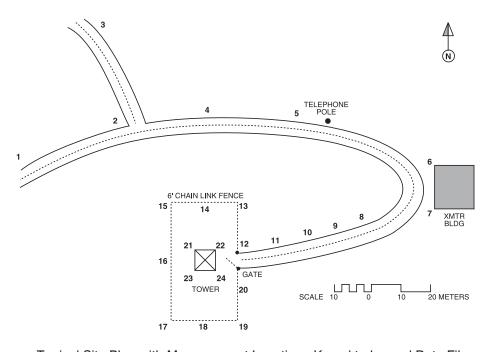
Make measurements and log them at the same time

Log continuously for up to 24 hours (You can store over 3,000 data points)

- 1 sample per second
- 10 samples per minute
- 1 sample per minute
- 10 samples per hour
- 2 samples per hour

Measure point by point and tie data to a site plan or machine diagram

- Log instantaneous values
- Make whole body average measurements and log the average and peak values
- Turn on the tone generator so you don't even have to look at the meter, like around high voltage or when climbling

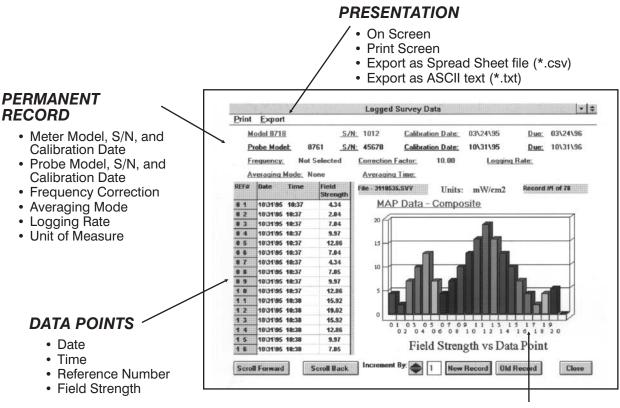


Typical Site Plan with Measurement Locations Keyed to logged Data File



Download the survey data using your personal computer and Windows®* compatible software

- View the data in tabular and bar graph formats
- Print the screen data
- Export and convert to either text or spreadsheet formats
- Retain a permanent record of meter and probe model numbers, serial numbers, calibration dates, and date of survey



Sample of Survey Data Collected One Data Point at a Time

- · Range Automatically Adjusted
- View up to 32 Data Points
- Scroll Forward or Backward

*Windows 3.1™, Windows 95™, Windows 98™, Windows 2000™, Windows XP™ and Windows NT™



BAR GRAPH

User's Guide

- Comprehensive
- Easy to Use

Description

The User's Guide for the 8718B is modeled on the best software manuals. After reading only the first few pages you will understand all the features of the 8718B and how to make basic measurements. When you are ready to make advanced measurements such as spatial averaging, data logging or time averaging, it is easy to go directly

to the appropriate chapter and find detailed, step-by-step instructions with views of the various display screens.

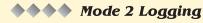
The applications sections include detailed application notes that cover some of the more demanding measurement situations.

Part I. Operating the Meter

- Hardware Description
- Basic Operation and Measurements
- Advanced Features
- User Interface Software

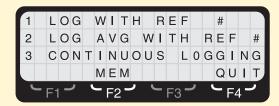
Part II. Applications

- Basic Measurement Techniques
- Surveying Communications Sites
- Radar Measurements
- Low Frequency Measurements
- Millimeter Wave Measurements
- Evaluating Industrial Equipment



To initiate Mode 2 logging (a series of spatially-averaged data points with a reference number assigned to each data point)...

 From the main data-logging screen, press the number 2 on the keypad to select LOG AVG WITH REF # from the logging menu screen.

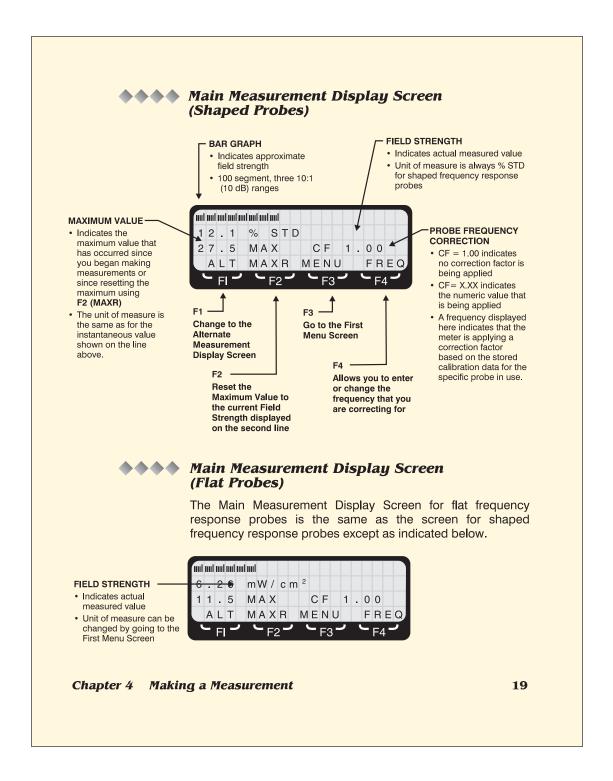


2. A screen will appear requesting that you assign a two-digit survey number to this logging run of data points. Use the numeric keypad to enter the two-digit number and then press F1 (OK) or ENTER. Make note of this number so that you can later associate this survey number with the data points collected. If you make a mistake, press F2 (CLR) to clear the screen and enter a new survey number.

Part 1 Operating the Meter

48





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 self diagnostics 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 P/N 21797900 and Adapter P/N 32595900

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.

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

8718B-

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

8718B-23 = 230V, line cord for United Kingdom



^a Specify the appropriate charger and power cord option ^b Ask about Narda's Rechargeable Battery Management Program