

2450 MHz

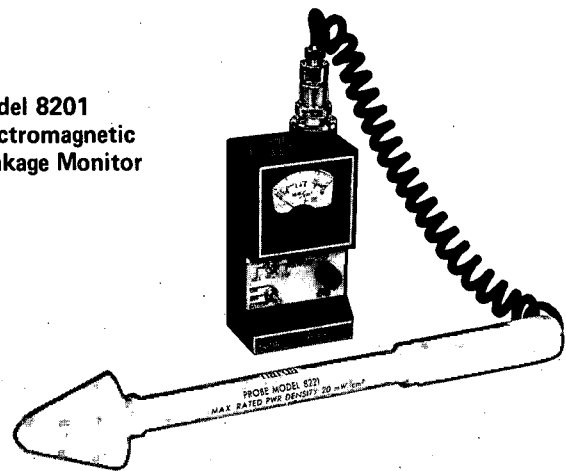
ELECTROMAGNETIC LEAKAGE MONITOR

"MINI-SURVEYOR"TM WITH 30 dB DYNAMIC RANGE

2450 MHz

Model
8201

Model 8201
Electromagnetic
Leakage Monitor



FEATURES:

- 30 dB Dynamic Range
- Accuracy of Probe Calibration ± 1 dB
- Three Dynamic Ranges
- Separate Probe and Meter
- Completely Portable, Lightweight

Narda's Model 8201 Electromagnetic Leakage Monitor fully complies with the requirements specified for test equipment in performance standards published by the Department of Health, Education and Welfare in the Federal Register, Volume 35, dated Oct. 1970.

Narda's Model 8201 Electromagnetic Leakage Monitor (Mini SurveyorTM) supplements our full line of Electromagnetic Radiation Monitoring Systems to provide a portable system ideal for use by field service personnel. The unit has been specifically designed as an inexpensive, battery-operated measuring device which accurately determines the leakage level from microwave ovens, heaters, dryers and medical equipment operating at 2450 MHz.

To maintain its high degree of accuracy, Model 8201 has been shielded to ensure insensitivity to extraneous radiation. One of two available measurement probes is supplied with the system depending on customer requirements. Model 8223 Probe offers a range of 1.0 to 100 mW/cm² with an overload rating of 300 mW/cm², and Model 8221 Probe has a range of 0.2 to 20 mW/cm² with an overload rating of 40 mW/cm².

Narda's hand-held probe and metering device are separated by a lengthy, coiled cable to provide maximum safety for the system operator. By extending the cable to its full length (43"/109cm), the device under test may be monitored without exposing his/her eyes to a potentially hazardous radiation field.

Calibration Frequency: (MHz)	2450
Power Reading Ranges: Model 8223 Model 8221	Full scale (three ranges): 1mW/cm ² , 10mW/cm ² and 100mW/cm ² 0.2mW/cm ² , 2mW/cm ² and 20mW/cm ²
Accuracy of Probe Calibration	± 1 dB
Probe Time Constant:	0.5 second
Response Time* (Nominal)	1.2 seconds
Accuracy of Instrumentation:	$\pm 3\%$ of full scale
Probe Overload Rating: Model 8223 Model 8221	300mW/cm ² 40mW/cm ²
Meter Scales:	Linear scale, marked 0-2 and 0-10
Batteries (two), Type: Life:	5.6 volt NEDA 1404 500 Hours (approx.)
Size: Probe Meter Cable, Coiled Cable, Uncoiled	11" long, 3/4" diameter (28 x 1.9 cm) 1-3/4" x 4-5/8" x 2-5/8" (4.4 x 11.7 x 6.6 cm) 6" long (15.2 cm) 43" long (109.2 cm)
Weight - Meter & Probe: Pounds Kilograms	1.3 0.6
Model 8201	Complete unit includes meter, batteries, one probe selected by customer, 2-inch spacer and carrying case

*Response time including meter (The time it takes for the meter indicator to reach 90% of its final steady state reading when subjected to a stepped input signal.)

U.S. Patents Nos. 3,641,439, 3,789,299, DES 221, 587, DES 221, 588.

PRECISION MICROWAVE AND RF TEST EQUIPMENT

THE NARDA MICROWAVE CORPORATION, Plainview, New York 11803

narda

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