

## Model 8201 Microwave Oven Survey System

- ◆ Two Interchangeable Probes
- ◆ Readings from  $10 \mu\text{W}/\text{cm}^2$  to  $100 \text{mW}/\text{cm}^2$
- ◆ Accuracy  $\pm 0.75 \text{ dB}$
- ◆ Three Measurement Ranges
- ◆ Separate Probe and Meter
- ◆ Portable and Lightweight



### Description

The Model 8201 Survey System is designed to provide maintenance, repair, and safety personnel with a small, completely portable instrument for measuring radiation leakage levels of commercial and industrial microwave ovens. These anisotropic probes measure emissions from a single direction. A spacer cone maintains the 5 cm distance from the leakage point which is the measurement distance standard for consumer ovens. The mid-scale readings for the two probes are  $1 \text{mW}/\text{cm}^2$  and  $5 \text{mW}/\text{cm}^2$ . In the United States, these values correspond, respectively, to the maximum leakage values for ovens at manufacture and the maximum leakage over the life of the oven. A standard system is comprised of the meter, one probe, a spacer cone, and a carrying case.

### Ordering Information

To order an 8201 system:

Order the Model 8211 meter, the Model 8140B spacer cone, and one or two probes (Models 8221 and 8223).

NSN for Model 8201 system with Model 8221 probe:  
6625-01-142-5468

### Specifications

PARAMETER	SPECIFICATION
Calibration Frequency	2450 MHz
Measurement Ranges Model 8221 Probe Model 8223 Probe	$10 \mu\text{W}/\text{cm}^2$ to $20 \text{mW}/\text{cm}^2$ $50 \mu\text{W}/\text{cm}^2$ to $100 \text{mW}/\text{cm}^2$
Probe Overload Model 8221 Model 8223	$40 \text{mW}/\text{cm}^2$ $300 \text{mW}/\text{cm}^2$
Accuracy	$\pm 0.75 \text{ dB}$
Meter Type Size Scales	D'Arsonval 2.2" (5.6 cm) Two linear, marked 0-2 and 0-10
Measurement Mode	Instantaneous
Zero Control	Front Panel Knob
Batteries Type Life	Two 6.0 volt NEDA 1410M 300 Hrs (approx)
Sizes Meter Probe Cable , coiled Cable, extended Case	5.7" x 3.2" x 1.5" (14.5 cm x 8.2 cm x 3.8 cm) 11" long x 3/4" diameter (27.9 cm long x 1.9 cm diameter) 6" (15 cm) 43" (109 cm) 15.3" x 9.4" x 3.0" (38.9 cm x 23.9 cm x 7.6 cm)
Weight, Meter & Probe	1.3 lb (0.6 kg)
Temperature Operating Non-operating	$0^\circ\text{C}$ to $+50^\circ\text{C}$ $-40^\circ\text{C}$ to $+75^\circ\text{C}$
Humidity	0% to 95%, non-condensing
Accessories Supplied <sup>a</sup>	Batteries, Operating Manual, and Carrying Case <sup>b</sup>

<sup>a</sup> The basic 8201 system is comprised of the Model 8211 meter, one probe (either Model 8221 or Model 8223), the Model 8140B spacer cone and the accessories supplied with the meter.

<sup>b</sup> The carrying case is foam lined to protect the meter and probes in transit and in storage. The meter, manual, spacer cone, and two probes can be stored in the case.