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HI-1710A

Microwave Measurement

Standard Features

- Auto-Ranging
- Analog Bar Graph Display
- Powerful Set Point Alarm
- RS232 Interface for Computer Control
- Serial Printer Output
- Analog Recorder Output
- Separable Probe/Pre-Amp for Calibration Simplicity
- Optional Remote Probe Zeroing
- Optional Alarm Output

CE

Patented Technology
The HI-1710A combines the proven and reliable diode sensing technology of the Holaday Microwave Survey Meters with the digital processing techniques developed for automatic oven scanning.

The RS232 interface allows easy adapting of the unit to computerized data acquisition in laboratory studies and semi-automatic production test systems. Digital Peak-Hold and Push Button Zeroing aid in improving testing productivity and reducing errors.

Digital filters, selected from the front panel, provide the "Fast" or "Slow" responses familiar to analog survey meter users.

Built in self-test sequences test meter performance at turn-on and each time the meter is zeroed. Diagnostic functions accessed from the front panel give quick indications of meter status.

Product Testing

On power-up, the HI-1710A is automatically configured for normal production testing, relieving the operator of a complicated setup operation. Simply activating the Peak-Hold feature from the front panel and adding a serial printer results in a formatted RF leakage report each time the ZERO key is pressed. With the Remote Zero Option, testing and reporting are accomplished without reaching to touch the instrument or setting down the probe for even greater operator efficiency. The Remote Zero Chamber provides a location shielded from stray RF fields by simply inserting the probe. An optional alarm output contact transfer provides remote signalling capability (24 VAC, 1A).

The separable probe/pre-amp assembly (HI-2623) means that daily ellipticity checks and periodic calibration checks can be made without removing the instrument from service. Spare probes, available from Holaday, can be pre-checked for immediate exchange with no meter down time.

Auto-ranging and the bar graph display make it quicker and easier for the operator to accurately perform oven leakage testing.Laboratory Measurement
The HI-1710A is ideally suited for engineering studies with a 0-1Vdc analog output for chart recorders and plotters. The remote control and reading features allows use in many automated data acquisition configurations.

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Specifications

Calibration Frequency	2450 MHz	
Ranges	0-1, 0-2, 0-5, 0-10 mW/cm^2	
Accuracy	± 1 dB	
Response Time	Slow	< 3 sec
	Fast	< 1 sec
Maximum Power Density	2 W/cm^2	
Input Power	110-240 Vac, 60/50 Hz, universal input	
Probe Length	30.5cm (12”)	
Cable Length	2.7m (9’)	
Dimensions	27.9 W x 20.3 H x 16.5 D cm (11” x 8” x 6.5”)	