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Optical Measurement Products

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THE STANDARD OF MEASUREMENT

System S370 Single-Channel IEEE-488 Compatible Power Meter

Manual | Specifications



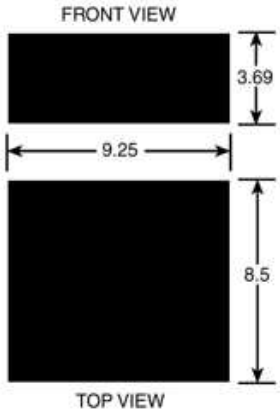


The System S370 Single-Channel Optometer is lightweight and compact for portability, yet has large controls and a convenient, easy-to-read, 16-character LCD screen. Its microprocessor provides step-by-step prompts via the LCD screen as the user programs each test parameter. Add any UDT Radiometric Sensor Head and the System S370 becomes a versatile, simple-to-use radiometer system.

The S370 is controlled with a simple, 10-function keypad, or from a host computer via the IEEE-488 interface. Functions such as sending and receiving data, viewing operational data on the host computer's monitor, and programming the S370, can be performed from a remote location.

Our unique plug-in calibration module enables limitless calibration. The module is an EPROM which is pre-programmed by qualified technicians in UDT' calibration lab. All calibrations are NIST-traceable and multiple modules are also available.

The S370 has five functions that eliminate tedious calculations. In "Linear" the S370 can be used with any linear photodiode. "Log" permits attenuation measurements or measurements relative to a reference level. "Log Ratio" allows the user to set a measurement as a reference level to which other measurements may be compared. "Ratio" takes the ratio of a reference value to subsequent measurements. "Responsivity" permits the user to program the responsivity of any uncalibrated sensor head into the S370. The S370 also offers an analog output and an analog bar graph display on the front panel.



Performance Specifications

	Linear Mode	Log Mode
Accuracy	±0.2% + 1 count,	±0.2% + 1 count,
	10^3 to 10^7 range	10^3 to 10^7 range
	±1.2% + 1 count	±1.2% + 1 count
	10^8 to 10^9 range	10^8 to 10^9 range
Dynamic Range	10 decades	9 decades
Calibration	May be calibrated in multiple units	
Temperature Drift		
10^3 to 10^7 range	±0.03% /C°	N/A
10^8 to 10^9 range	±0.06% /C°	N/A
dBm, percent of reading, referred to input	N/A	None

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General Specifications

Display	Liquid crystal, 16 characters
Display Range	0000 to 9999
Range Control	Automatic or manual
Output	
Digital	IEEE-488 (drivers available for Lab Windows™)
Analog	±2.5 VDC
Output Connectors	
Digital	IEEE-488
Analog	BNC
Bandwidth	9.0 Hz
Temperature Range	
Operating	0° to +45°C
Storage	-20° to +60°C
Weight	4.0 pounds (1.8 kg)
Accessories Supplied	Power cord, instruction/maintenance manual

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