G&R LABS, INC

LIGHT MEASUREMENT AND CALIBRATION

MODEL 325 DATA SHEET

The Model 325

The Model 325 internal computer allows storing of sensor readings in MW/CM2, peak MW/CM2, MJ/CM2 (single pulse) or accumulated MJ/CM2 (total time in seconds). The Model 325 also calculates and stores average value and percent deviations by taking five readings in a fixed pattern for either MW/CM2 or MJ/CM2 and then displaying the average value and the +/-% uniformity as well as the +/-% deviation from the center value.

The two line display format allows for several readings at one time.

A variety of sensor packages can be used at wavelengths from 220nm to 540nm and beyond.

Wavelength traceability to NIST is +/-3.0% with calibration certificate provided.

- Computer Interface
- Real Time Measurements
- X10 range
- Probes are calibrated to +/- 1% to each other at the same wavelength and are interchangeable
- Dual channel probe or single channel probe capability
- Dual and single channel probes are Interchangeable with the Model 325
- Cosine response probes
- Measures MW/CM2, peak MW/CM2, MJ/CM2 (single pulse), accumulated MJ/CM2 time (seconds), and accumulated time
- Calculates average value, % uniformity and % deviation from center value
- Battery operates for approximately 18 hours before recharge
- Charger operates from 100-240 VAC, 50-60 Hz with UL, CE, and TUV approvals

Light Meter Model 325 Specifications

Switch Functions:

- Red button- ON (hold for one second)
  Off when displayed and MORE (data review)
- Two black buttons for Mode Reset
  SEL (select), Back (data review)
- Channel A, Channel B switch
- x1 or x10 switch

Display:

- 2 Lines by 20 characters

Range:

- MW/CM² - x1 0.01 to 250
  x10 0.1 to 2500 (peak same)
- MJ/CM² - .01 to 999,999
- Time - .001 to 9999.9 seconds
- Accumulated MJ/CM² 9,999,999 Time 999.999 Seconds

Mode Selection:

- MW/CM²
  MW/CM² and peak MW/CM² continuous display
- MJ&MW/CM²
  Single pulse- MJ/CM², Time (seconds)
  Average MW/CM² and Peak MW/CM²
  Readings update automatically with new signal or manual reset (selectable)
- MJ/CM² - Time
  MJ/CM² (single pulse) and accumulated MJ/CM² - Time (seconds) and accumulated Time
  Single pulse- MJ/CM² and time update automatically with new signal
- 5 Point MW
  Five readings of MW/CM² in a *fixed pattern using a one second shutter opening (minimum) to read MW/CM²
  Display of average MW/CM² and +/-% uniformity
  Display of +/-% deviation of each reading from center value
  Display of all five values (3digits)
- 5 Point MJ
  Five readings of MJ/CM² in a *fixed pattern ~ shutter control
  Display of average MJ/CM² and +/-% uniformity
  Display of +/-% deviation form center reading

*Display Pattern

2 1 5

3 4

Power:

- Built in rechargeable battery- 18 hours operation (approx.)
- Recharge time 6 hours(unit off) – indicated by LED (goes dim and then off when fully charged)
- Low battery indication on display next to OFF
- Charger – 100-240 VAC, 50-60Hz
- Charger is UL, CE, TUV approved

Probe Wavelengths:

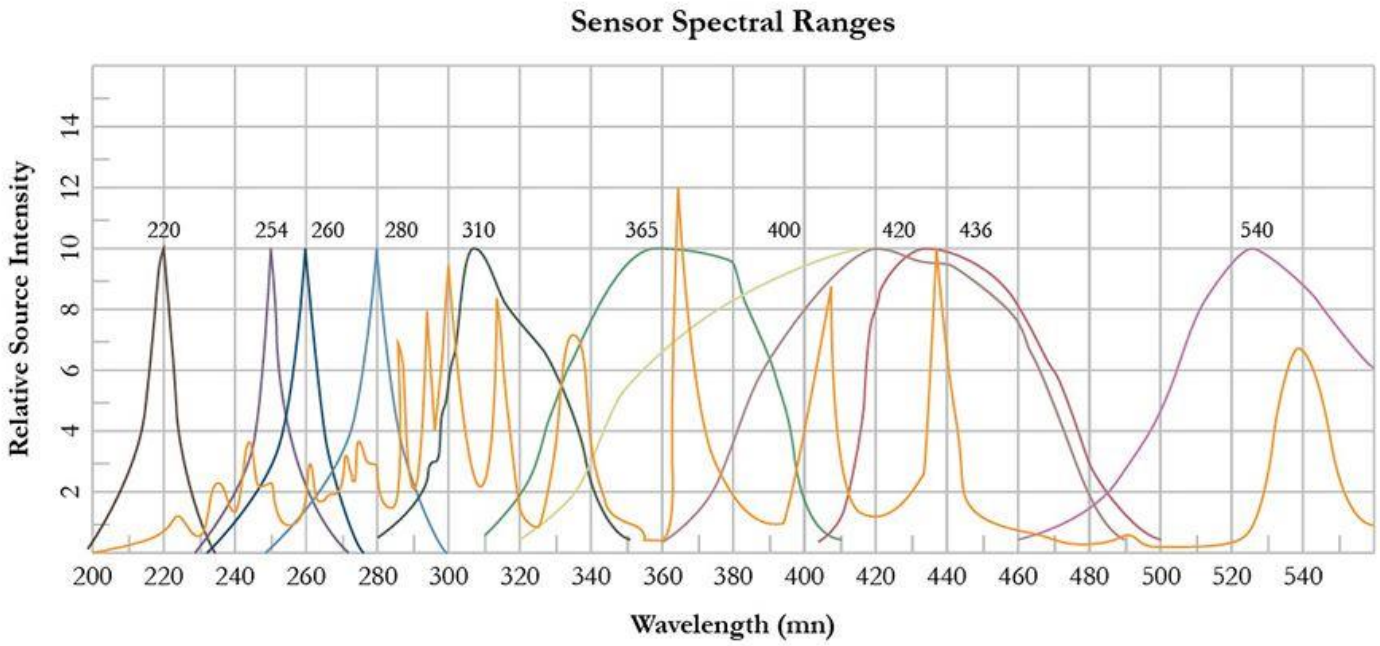
- 220nm, 248nm, 254nm, 260nm, 280nm, 310nm, 365nm, 400nm, 420nm, 436nm, 540nm and more

Size:

- 5.5 in. W (14cm) x 7.25 in. L (18.4cm) x 1.6 in. H (4.1cm)

Weight:

- 1.5 lbs. (681 grams)



This graph accurately represents the spectral response of probes used today in the Microelectronic Industry. This graph includes the spectral response of the detector as well as the spectral response of the filter glass used in probes.

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