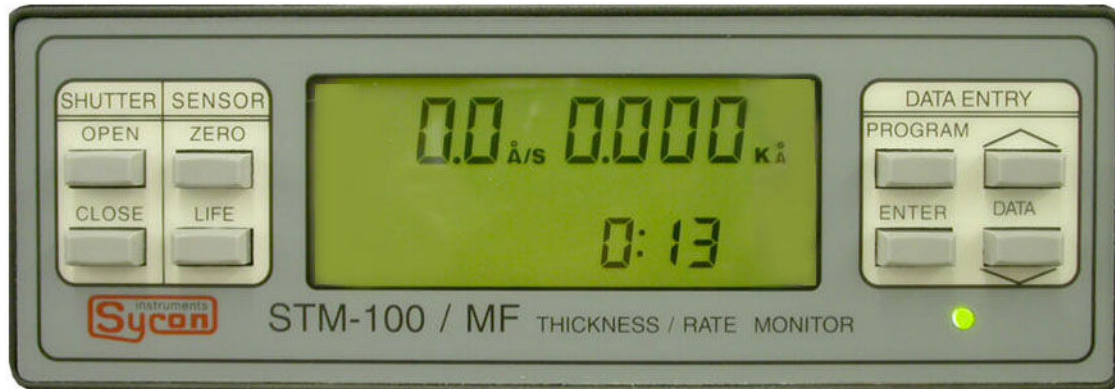


## Product Information for STM-100/MF



### Thin Film Deposition Thickness/Rate Monitor

The Model STM-100/MF Thickness/Rate Monitor is a precision mass and film thickness measurement instrument for use in thin film deposition processes and other quartz crystal microbalance applications. The STM-100/MF has proven very tough and reliable. Easy to set up and use, the STM-100/MF is a world standard.

### Features:

- Multi-Film Program Storage
- High Resolution and High Speed Measurement Engine
- 1 Å Thickness Resolution
- 0.1 Å/Sec. Rate Resolution
- 4 measurements per second
- Multiple function high readability Back-lit LCD
- Shutter and Limit I/O Relay Outputs
- Analog Output of Rate or Thickness  $\pm 0$  to 10V 12 bit resolution
- Low Maintenance Sensor Design
- Industry Standard 6 MHz Sensing Crystal
- RS-232 Interface
- LabVIEW™ Front Panel Interface

### Multi Mode Operation

- Thickness/Rate Monitor
- Negative Thickness Monitor
- Sensor Frequency Monitor

### High Speed

- Four Measurements per second

### High Resolution

- 0.1Å per second

### High Accuracy

- $\pm 0.5\%$  thickness  $\pm 1$  count

### Measurement Range

- 500KÅ Aluminum Equivalent

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## Relay Output

- Four 1.5 Amp SPST N.O. Contacts
- 1) Shutter Control
- 2) Thickness Set point
- 3) Timer Set point
- 4) Crystal Failure

## Remote Input

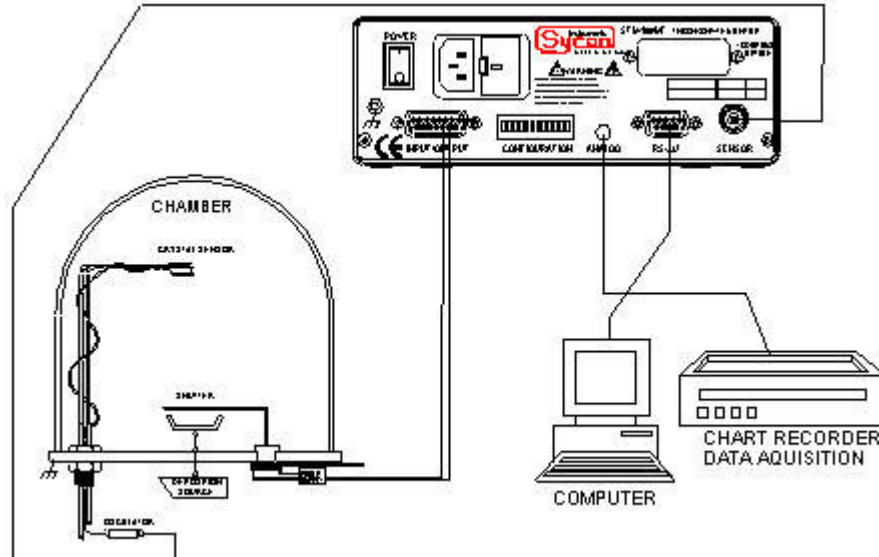
- Four TTL Compatible inputs
- 1) Open Shutter
- 2) Close Shutter
- 3) Zero Thickness
- 4) Zero Time

## Setpoints

- End Thickness: 0.000 to 9999KÅ
- Setpoint Thickness: 0.000 to 9999KÅ
- Timer: 00:00 to 99:59 m:s

## Power Requirement

- 120/240 VAC 50/60 Hz 2.5 VA



For further Information please contact us.