

STM-100 / MF

Thin Film Deposition Thickness / Rate Monitor



SYCON STM-100/MF

The Model STM-100/MF Thickness/Rate Monitor from Sycon Instruments, Inc. 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. Thousands of durable units are providing stable monitoring of depositions. Easy to setup and use, the STM-100/MF has a history that makes it the one to have for deposition monitoring.

The STM-100/MF is a world standard, 1000's in use.

FEATURES

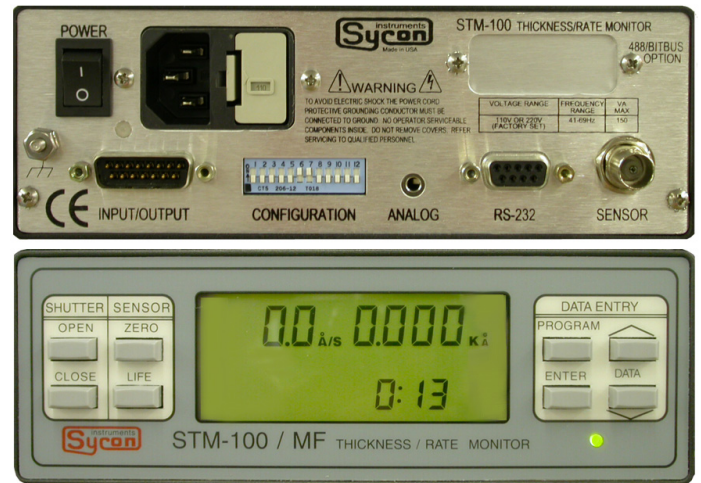
- Multi-Film Program Storage
- High Resolution and High Speed Measurement Engine
- 1 Å Thickness Resolution
- 0.1 Å/Sec. Rate Resolution
- 4 measurements per second
- Multiple function high readability Back-lit LCD
- Shutter and Limit I/O Relay Outputs
- Analog Output of Rate or Thickness ± 0 to 10V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



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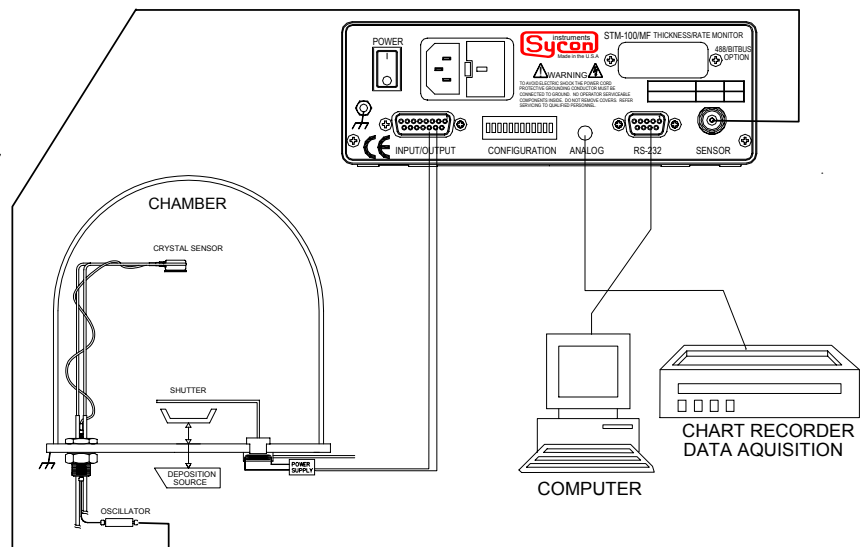
STM-100 / MF Specifications

Multi Mode Operation	Thickness/Rate Monitor Negative Thickness Monitor Sensor Frequency Monitor
High Speed High Resolution High Accuracy Measurement Range	Four Measurements per second 0.1Å per second ±0.5% thickness ±1 count 500KÅ Aluminum Equivalent
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

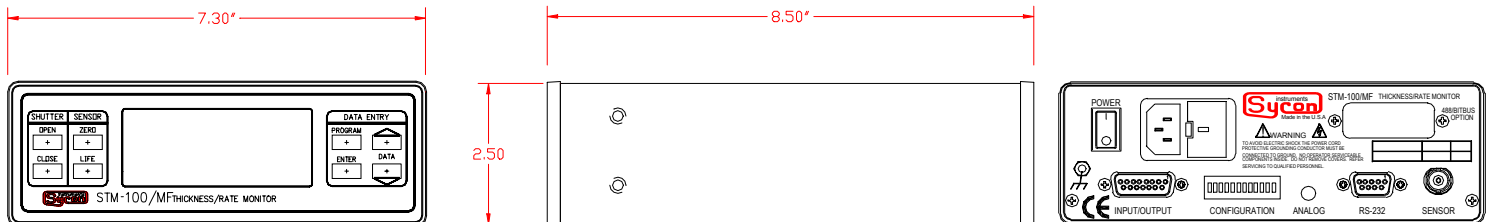


Ordering Information

- 500-044 STM-100 / MF Base Configuration
- 500-089 STM-100 / MF package, includes sensor
- 500-047 SHMX-4, 4 Sensor Multiplexer
- 500-119 STM-100 / MF with SHMX-4
- 500-103 Low profile sensor Package
- 500-021 IEEE 488 option module
- 500-117 10 Pack Gold Sensor Crystals
- 014-008 19" Rack mount Kit
- 014-009 19" Dual Rack mount Kit



Dimensions



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