

STM-2XM

2-CHANNEL THICKNESS/MASS/RATE MONITOR



The STM-2XM is the next generation rate/thickness monitor from Sycon Instruments. Implementing features only available in more expensive and complicated controllers, the STM-2XM is the perfect instrument for semi-automatic deposition control and monitoring. The STM-2XM can manage simple “single sensor” processes as well as more complicated co-deposition and alloy processes. The STM-2XM features a high contrast LCD display and an intuitive scroll-box / spin-knob menuing system. The STM-2XM was designed to be user friendly, with features such as “on-line help”, context-specific menus, and “hints” on the operating screen.

FEATURES

- Same high speed, high accuracy measurement engine as our controllers
- Temporal averaging for superior accuracy even at very low rates
- Spatial averaging for superior accuracy in large chambers or while using planetary fixtures
- Independent mode allows the STM-2XM to function as two completely separate monitors
- Shutter delay for precise control of film quality
- Rate sampling capable, greatly extends crystal life for thicker films
- Advanced alloy mode includes linked shutter delay capability
- “Time/Power” feature allows films to complete even with a crystal failure
- Rate, thickness, and rate deviation graphs
- Displays units in mass or thickness
- 8 programmable digital inputs, 8 programmable digital outputs, and 4 analog outputs



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STM-2XM Specifications

Multi Mode Operation	Single film mode ("Simple") Backup mode (crystal switching) Spatial averaging mode Alloy mode Independent mode (two monitors)
Thickness Resolution (no averaging) Rate Resolution (no averaging) Thickness Resolution (50 sample average) Rate Resolution (50 sample average)	0.0133Å per measurement 0.133Å per second 0.002Å per measurement 0.02Å per second
High Accuracy	0.03 Hz / meas., 2 ppm relative
High Speed Measurement Range	Ten measurements per second 500KÅ Aluminum Equivalent
Analog Output Functions Four -10 to +10V Analog Outputs	Computer-controlled Rate Rate deviation Thickness
Relay Output (freely assignable) Eight 1.5 Amp SPST N.O. Contacts	Manual (front panel) Source shutter Substrate shutter Crystal shutter Crystal fail Setpoint time Setpoint thick Good rate Computer-controlled
Remote Input Eight TTL Compatible inputs	Open Shutter Close Shutter Zero Thickness
Setpoints	End Thickness 0.000 to 999.9KÅ Setpoint Thickness 0.000 to 999.9KÅ Timer 0:00:00 to 9:59:59 h:m:s
Power Requirement	120/240 VAC 50/60 Hz 2.5 VA

Ordering Information

500-253	STM-2XM Base Configuration
500-103	Low-profile Sensor Package
500-117	10 Pack Gold Sensor Crystals
014-008	19" Rack Mount Kit
014-009	19" Dual Rack Mount Kit



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