

STC-2002

Expandable Thin Film Deposition Controller



SYCON STC-2002

A new generation of Thin Film Controllers from Sycon Instruments - a name known as a leader in Thin Film monitoring and control instrumentation. The new STC-2002 with its versatility and expandability will fill your Thin Film Deposition Control requirements from the simple to the most complex. Whether you are depositing a single layer or a complex multi-layer film with simultaneous control of two materials the STC-2002 can fill your needs. All this with the highest accuracy and best control achievable from a quartz crystal deposition controller.

The STC-2002 employs an advanced measurement technique, which allows high accuracy reading to be made 10 times a second – across the board. – no fudging the specs. The high-resolution measurements at a fast update allow precise control of the deposition source to achieve the quality of films desired. Sycon Instruments and the STC-2002 will meet your Thin Film Deposition needs – now, and in the future.

FEATURES

- High Resolution / High Speed measurement Engine for precise deposition control
- 10 Measurements per second @ 0.0088Å/s Rate resolution
- RS232 / RS485 interface for serial communications
- Large format Numeric and graphic display with touch panel user interface
- Expandable, Up to 8 Source / Sensors, Multiprocessor design maintains performance
- Expandable, I/O, Up to 32 inputs or outputs for use with programmable logic
- Weighted averaging of up to 8 sensors for precise large area deposition
- Expandable Display Module (optional) for simultaneous depositions
- 4 user defined front panel buttons and user definable indicators for use with I/O programs
- Optional removable memory module for parameter storage and transfer



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STC-2002 Specifications

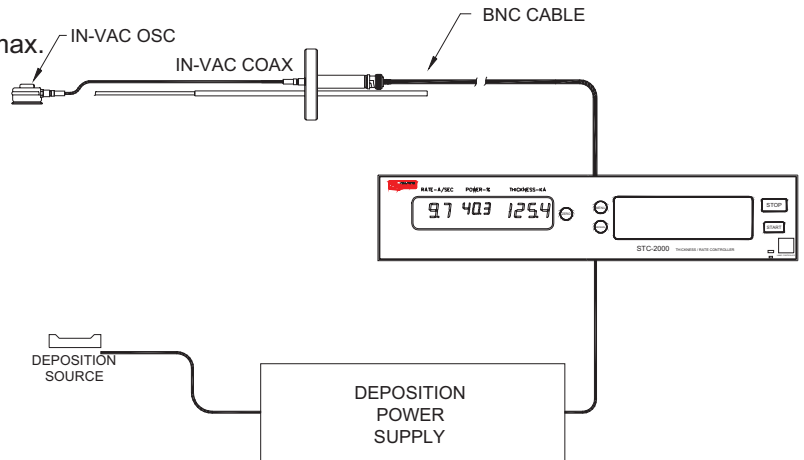
Resolution	0.02 Hz @ 10 meas / sec.
Crystal Sensor	Industry standard 6 MHz
Thickness Display	0.000 to 999.9 K Å
Rate Display	0.00 to 999 Å/sec
Inputs	8 5 – 30VAC-DC or contact closure, Opto isolated
Outputs	8 Form C relays 24volts 1 A
Source Outputs	+/- 2.5, 5, 10 volts @ 10 mA.
Parameter Storage	99 Films, 30 Resource Maps
Size	3 ½”h x 19”w x 8”d (2U full rack)
Weight	6.5 lbs.
Input Power	90 – 264 VAC 1.4 Amps rms



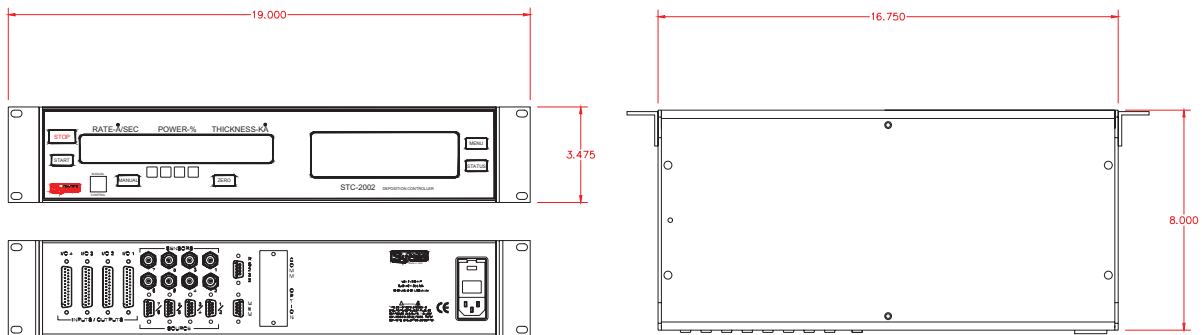
Ordering Information

Base Configuration: 2 source / sensor, 8 inputs and 8 outputs, RS232 communication.

- 500-211 STC-2002 Base configuration
- 502-193 Additional 2 source / sensor card, 4 cards max.
- 502-197 Additional 8 Input card
- 502-194 Additional 8 Output card
- 500-212 Memory interface with 1 memory module
- 500-210 Memory Module
- 500-013 Low profile sensor package
- 500-218 In-vac Oscillator sensor



Technical Drawing



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