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Sigma Instruments

Advanced Thin Film Solutions

In just over 10 years, **Sigma Instruments** has become a leading provider of measurement and control solutions for vacuum thin film processes. We offer the broadest, most cost-effective selection of thin film monitors, controllers, software, and accessories. More importantly, we back our products with personalized service and support, before and after the sale. For more information about our products, visit our website at www.sig-inst.com. To find out more about our support, call one of our representatives, or give us a call 970-416-9660. We look forward to hearing from you.

SQC-300 Series QCM Controllers



- Control 2 or 4 QCM channels
- High resolution ± 0.03 Hz at 10 readings/sec
- Co-deposition option
- 3½" (2U) or 5¼" (3U) height
- ¼ VGA color LCD display
- RS-232 & USB standard, Ethernet optional
- Windows® setup and data acquisition software

SQM-160 QCM Monitor



- Monitor 2 to 6 quartz sensors
- Dual crystal auto-switching
- Average multiple sensors
- Rate sampling for extended crystal life
- Display rate, thickness, frequency, or mass
- Two analog outputs for rate/thickness recording
- Windows® setup and data acquisition software

SQM-242 PC Card QCM Controller



- Monitor 4 quartz sensors, control 2 outputs per card
- Up to 6 cards for multi-sensor/multi-material deposition
- SAM-242 option to measure analog inputs
- Windows® software for setup and data acquisition
- LabView®, Visual Basic, and C source code included

Optional SQS-242 software for multi-layer recipes, PLC-based digital I/O, graphing, and more.

Q-pod™ QCM Transducer



- Simplest & least expensive QCM available anywhere
- Connect directly to your USB port - up to 8 Q-pods.
- No external power required - USB powered
- Windows®-based software included for operation and data logging.
- No external oscillator required
- Small enough to fit in a shirt pocket!

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EIES-IV Guardian™ Thin Film Controller



- Control deposition rates from 0.1 to 10,000 Å/sec
- Co-deposit up to 8 materials
- 8 EIES inputs, 4 optional QCM inputs
- Operates 2 EIES sensors (Sentinel® compatible)
- 12 relay outputs and 16 digital inputs
- Windows®-based software for setup and operation
- Ethernet, RS-232, or ActiveX communications
- Ideal for OLEDs, MBE, CIGS

CI-100 Crucible Indexer



- Direct drive - no pulleys to set or adjust
- Electronic calibration - no mechanical adjustments
- Small, cool-running, high-torque motor drive
- Configure for virtually any pocket/banana layout
- Digital I/O compatible with existing indexers
- Includes setup software.

Sensors, Feedthroughs, and Accessories



- Single/Dual, straight/right angle, shutter, UHV sensors
- Feedthroughs on 1" bolt, Conflat®, and KF flanges
- In-vacuum oscillators for extended crystal life
- Gold, Silver, and Alloy crystals
- Fast turnaround on custom assemblies

Conflat® is a registered trademark of Varian Vacuum.
 LabView® is a registered trademark of National Instruments.
 Sentinel® is a registered trademark of Inficon Corp.
 Windows® is a registered trademark of Microsoft Corp.

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