



- Simplest & least expensive QCM available anywhere.
- Connect directly to your PC's USB ports up to 8 Q-pods.
- Windows[®]-based software included for operation and data logging.
- Weighs less than 2 ounces and small enough to fit in a shirt pocket!

Description

Looking for a Quartz Crystal Monitor (QCM) to measure thin film deposition rate and thickness? Sigma Instruments' new Q-podTM transducer is your small, inexpensive, and accurate solution.

Setup and operation couldn't be easier. Connect the Q-pod BNC connector to the signal cable from a QCM sensor. On the other side, a standard USB cable connects to your PC. No external oscillator or power source is required.

Load the free Q-pod software on your PC and you're ready to go.

The Q-pod software displays rate, thickness, frequency, crystal life, and a graph of rate versus time, for up to 8 Q-pods simultaneously. Q-pod readings can be logged to disk in spreadsheet friendly comma-delimited format.

Sigma's Q-pod provides the capabilities of a traditional QCM at a fraction of the size and cost.

 \mathbf{Q} -podTM - Another advanced thin film solution from Sigma Instruments, your innovation leader in thin film measurement.

Specifications

Sensor Frequency Range Frequency Resolution Frequency Accuracy Frequency Stability Input Interface & Power Size Weight Software included Computer requirements Compatible with any QCM sensor 1 to 10 MHz 0.05 Hz at 6 MHz 0.002 % \pm 2 ppm total, over 0° to 50° C BNC USB, v2.0 or later 1" x 2" x 2.5" (25 x 50 x 64 mm) 2 oz (32 gm) Provides display and setup of all operating parameters Any PC running Windows[®] xP or 2000, with one available USB port for each Q-pod



Advanced Thin Film Solutions

Q-pod[™] Application

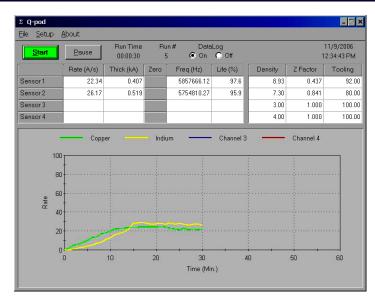
The block diagram at right shows typical thin film deposition system. A complete Q-pod system consists of the Q-pod, a sensor and feedthrough, and, of course, your computer.

Could we make a QCM any simpler?

Typical Q-pod system:

Q-pod	transducer
932-009	sensor
930-011	feedthrough, 1" bolt
934-000	crystals, 10-pack

Q-pod[™] Software

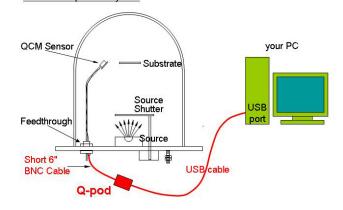


The screenshot at left shows the main setup and operating screen of the software included with the Q-pod. The software supports up to 8 Q-pods on one PC. (Each Q-pod requires one available USB port.)

Sigma Instruments Unit 1 120 Commerce Drive Fort Collins, CO 80524 Phone 970-416-9660 Fax 970-416-9330 Web www.sig-inst.com Email sales@sig-inst.com



Thin Film Deposition System



© 2007 Sigma Instruments Q-pod rev 1 Jan 2007