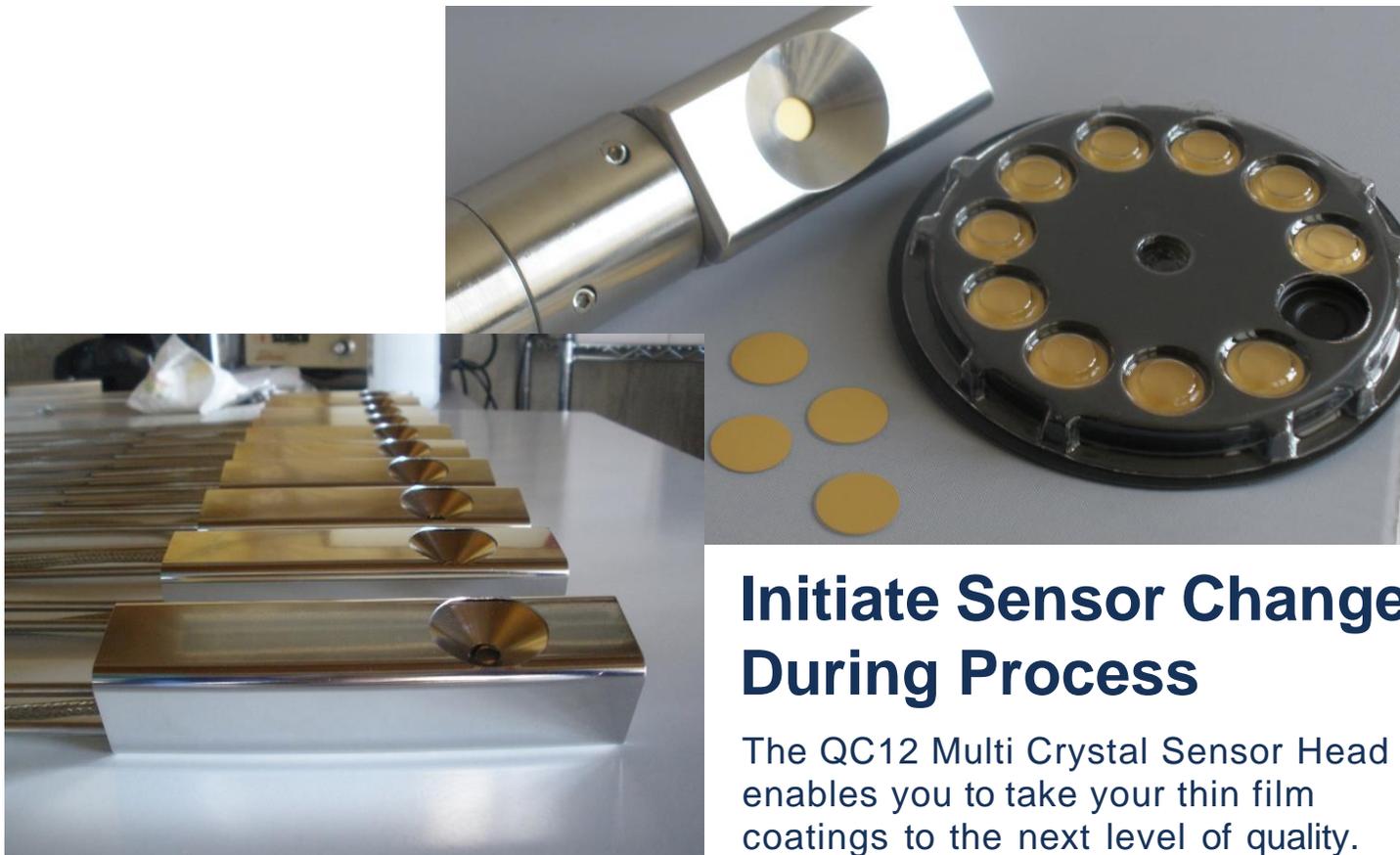


# Fil-Tech Inc.

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## QC12 Multi Crystal Sensor Head



### Initiate Sensor Change During Process

The QC12 Multi Crystal Sensor Head enables you to take your thin film coatings to the next level of quality.

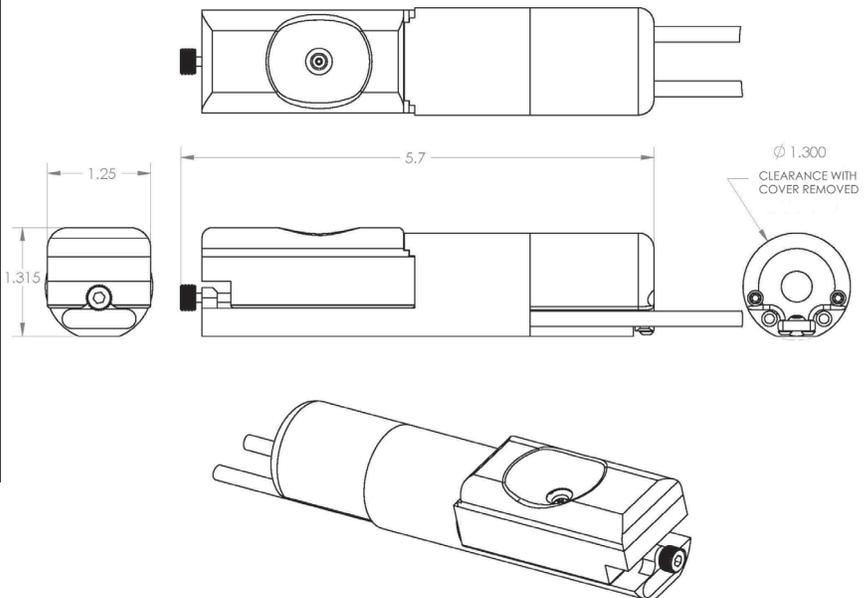
#### Package Includes:

- Multi Crystal Sensor Head
- Controller
- 1" Bolt Feedthrough or 2 3/4" Conflat
- 30" In-Vacuum Cable
- 12 Complimentary Quartz Crystals
- 12 Crystal Holders
- 1 Sensor Shield

# QC12

## SPECIFICATIONS

Fits through standard 1" - 2 3/4" Flange
2ea 10/32" Mounting Holes
<b>Standard Version</b>
Bakeable to 120° C
<b>UHV Version</b>
Bakeable to 250° C
<b>QC14 Controller</b>
Standard 1/2 Rack
110 Volt
RS232



## HOW THE QC12 WORKS

The QC12 Multi Crystal Sensor Head can hold up to 12 crystal sensors, which are stored in the unit's cartridge assembly, ensuring accurate, error free transfer. The crystal sensors are individually contained, providing precise movement into the coating zone. Once the crystal has been depleted it is replaced either automatically or manually, and the spent crystal is moved into a holding compartment.

Replenishing the multi crystal sensor head is fast and easy. Simply remove the self-aligning crystal cartridge only, leaving the main body installed. No need to break water lines! Remove the two screws from the top plate of the cartridge, load new crystals and remove depleted crystals. Reinstall the sensor head cartridge and resume your process.

The QC12 Multi Crystal Sensor Head reload takes less than 5 minutes!

# MULTI CRYSTAL SENSOR HEAD

## CONTROLLER SPECIFICATIONS:



## BENEFITS

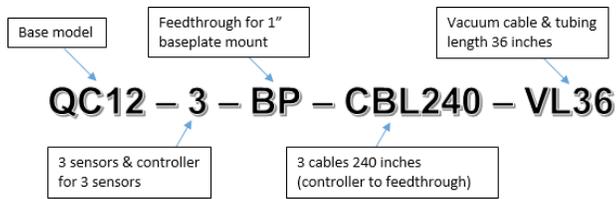
- ☐ Reliable
- ☐ Small Footprint
- ☐ Minimal Shadowing
- ☐ Ease of Installation
- ☐ Used in Optical, OLED, and MBE applications
- ☐ Works with Inficon, Sigma, Maxtek, and Sycon Thin Film Controllers and Monitors

The advanced space saving design is able to fit through a 1" - 2 3/4" conflats. This unit also boasts of compatibility with Inficon, Sigma and Maxtek's thin film deposition controllers, thus reducing expenses by using your current controller.

The QC12 Sensor head can be programmed to operate fully automated, through the IO port. In addition, a "Load" option on the QC12 Controller allows the operator to manually change crystal sensors during a deposition run.

This unit is an ideal tool for many precision coating applications

# HOW TO ORDER THE QC12



**Examples:**

**QC12-3-BP-CBL240-VL36** = QC12 package, with 3 sensors and a controller for 3 sensors, feedthroughs are 1" base plate mount type, 3 cables 240 inches long and all vacuum cables/tubes 36 inches long

**QC12-3-BP-CBL240-VL36-VL24-VL16** = QC12 package, with 3 sensors and a controller for 3 sensors, feedthroughs are 1" base plate mount type, 3 external cables 240 inches long, one sensor with vacuum cables/tubes 36 inches long, one 24 inches, and one 16 inches.

**QC12-S-CF-VL24** = QC12 sensor with vacuum cable/tubing 24 inches long and a 2 3/4" conflat feedthrough.

**QC12-C4** = QC12 controller only, with 4 outputs

**QC12-S24** = Sensor only with tubes 24 inches long, no cables

**QC12-VLC24** = Tubes 24 inches long with cables

## Part Numbering Legend

QC12	Basic model prefix
-X	Package or part type -S sensor only, -F feed through only, a number here indicates a package and how many sensors - 2 is 2 sensors and a 2 output controller
-Y	Mounting type for feed through if needed
-Z	Cable length or extra data if needed
SX	Sensor only, X is tubing in inches
1,2,3,4,5,6,7,8	Complete kit with sensors and controller, number of sensor and outputs and cables
CX	Controller only with number of outputs indicated by X
BP	Feedthrough for 1" base plate mount
CF	Feedthrough for 2.75 CF mount
CBLX	Cable from controller to feedthrough, X is length in inches
VLX	Tubing length for sensor in X inches, max 240. Actual crystal and changer cable lengths to be X+X/6 to account for cable wrapping
XTH	Crystal holders

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