



Liquid Plating Crystals

1" Diameter 5MHz polished, plano/plano crystals for measurements in gas or liquid

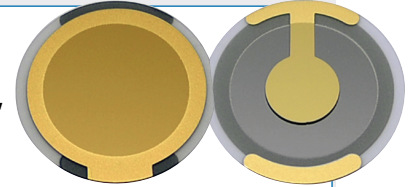


Fil-Tech			ELECTRODE		SRS		INFICON	
QM1001	\$30 each	Cr/Au	0100RX1	\$395/10	149273-1	\$55 each		
QM1003	35	Ti/Au	0100RX3	395/10	149257-1	51		
QM1003-1	40	Ti/Ti	0100RX4	595/10	149274-1	64		
QM1004	40	Ti/Pt						
QM1005	35	Ti/Al2O3						
QM1007	40	Cr/Au/Ni						
QM1008	30	Stress Relieving Alloy						
QM1010	40	Cr/Au/Mo						
QM1011	40	Ti/Mo						
QM1012	40	Cr/Au/Cu						
QM1013	40	Cr/Au/Zn						
QM1015	40	Cr/Au/SiO2						
QM1018	35	Cr/Au/Cr						

Fil-Tech Crystals

.550" Diameter
4.95MHz polished,
plano/plano.

Comparable to Q-SENSE



Fil-Tech			ELECTRODE		Q-SENSE	
QSX0301	\$50 each	Au	QSX 301	\$295/5		
QSX0303	50	SiO2	QSX 303	450/5		
QSX0304	50	SS	QSX 304	N/A		
QSX0309	50	Al				
QSX0310	50	Ti				



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Quality Crystals®

In 6MHz and 5MHz in Gold, Stress-Relieving Alloy®, Longer Life Gold®, Silver and Advanced Adhesion Alloy®. The metal used for the contact electrode on the crystal has an effect on the crystal's ability to measure film thickness. Choose the best electrode for your coating process.

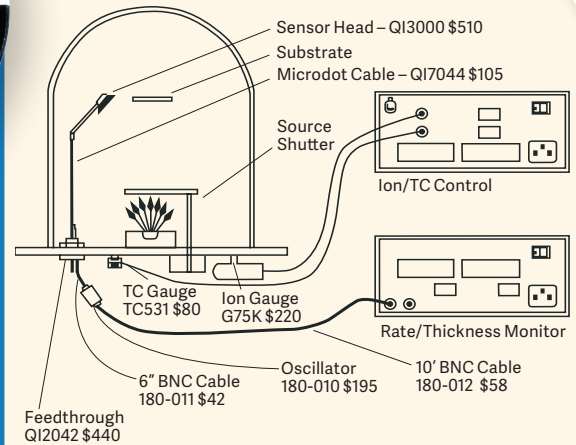
Fil-Tech	INFICON STYLE	FREQUENCY & P/N
QI8010	Gold	6MHz 008-010-G10
QI8012	Longer Life Gold	6MHz
QI8008	Stress Relieving Alloy	6MHz 750-769-G1
QI8014	Advanced Adhesion Alloy	6MHz
QI8009	Silver	6MHz 008-009-G10

Fil-Tech	BALZERS STYLE	FREQUENCY & P/N
QB104G	Gold	5MHz B489-025-T
QB104GL	Longer Life Gold	5MHz
QB104A	Stress Relieving Alloy	5MHz
QB104S	Silver	5MHz BN845-104-T

Fil-Tech	SLOAN STYLE	FREQUENCY & P/N
QS3952	Gold	5MHz 103952
QS3952GL	Longer Life Gold	5MHz
QS3954	Stress Relieving Alloy	5MHz
QS3950	Silver	5MHz 103950

Fil-Tech	INTELLEMETRICS STYLE	FREQUENCY & P/N
QI8010F	Gold	6MHz SN66NG
QI8012F	Longer Life Gold	6MHz
QI8008F	Stress Relieving Alloy	6MHz
QI8009F	Silver	6MHz SN66NS

Typical System



Monitor/Controller Options

SQM-160	Rate/thickness monitor	\$1,980
STM-2XM	Rate/thickness monitor	2,955
XTC/3	Deposition Controller	4,710
SQC-310	Deposition Controller	3,390
IC6	Deposition Controller	13,150
CYGNUS 2	Deposition Controller	13,280

Components Required for a Complete System

180-010	Remote analog oscillator	\$195
180-011	6" BNC cable M/F	42
180-012	10' BNC cable M/M	58
QI3000	Sensor head single sensor	510
QI7044	30" Microdot cable	105
QI2042	Feedthrough 1" bolt	440
TC531	Thermocouple gauge	80
G75K	Ion gauge, 3/4" kovar, iridium	220

INFICON Multi-Film Rate/Thickness Monitors and Controllers

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Fil-Tech is an authorized distributor for INFICON® products. Choose your INFICON monitor or controller, or call 617-227-1133 with your application requests and for best pricing.



SQM-160 S-2-R Multi-Film Rate/Thickness Monitor

Has 2 sensor inputs standard and 4 additional sensor inputs optional with 2 recorder outputs to provide analog rate and thickness signals. Sensor inputs can be assigned to different materials, averaged for accurate deposition, or configured for a dual sensor. Rate displays of 0.1Å/sec or 0.01Å/sec and frequency or mass display can be selected. Four relay outputs allow control of the source of sensor shutters, signal time and thickness setpoints, and signal crystal failure.

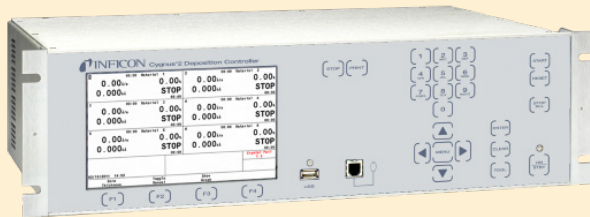
SQM160-S-2-R \$1,980



STM-2XM-G1 Channel Rate/Thickness Monitor

Combines high accuracy with flexible programming and easy operation at an affordable price. Has 8 programmable digital inputs, 8 programmable digital outputs, and 4 analog outputs. It manages complicated co-deposition with an independent mode allowing it to operate as 2 completely separate monitors with temporal averaging for superior accuracy. Programmable features include shutter delay, time/power monitoring, and rate sampling.

STM-2XM-G1 \$2,955



Cygnus® 2 Thin Film Deposition Controller

Provides exceptional value by combining the proven performance of INFICON thin film controllers with unique features, all designed for you to achieve the most from your OLED process. Cygnus 2 uses the ModeLock frequency measurement system to provide stable, high-resolution rate and thickness measurement with an industry leading rate resolution of .004Å/s every 1/10 second.

CYG2-1101000 \$13,280



XTC/3 Thin Film Deposition Controller

INFICON's deposition controller for single and multiple-layer processes. The XTC/3 has patented ModeLock that provides mode hop prevention for consistent quality. Offers highly accurate control of deposition rate and thickness, the capacity for virtually any number of layers, easy installation, and extremely high reliability to ensure productivity.

XC3S-1000 \$4,710
XC3M-1000 \$8,060



SQC-310 Thin Film Deposition Controller

Offers advanced electronics, improved display and an affordable price. Choose SQC-310 for sequential deposition or the SQC-310C for codeposition. SQC-310 comes standard RS-232 and USB, a "Quick Setup" menu, Windows® program, is accurate with ±0.03 Hz resolution at 10 reading/second and storage capacity for up to 100 processes, 1,000 layers and 50 films. Available in English or Chinese.

SQC310-2-R-1 \$3,390
SQC310C-4-R-1 \$6,120



IC6 Thin Film Deposition Controller

Provides exceptional value by combining the proven performance of INFICON thin film controllers with unique features, all designed to achieve the most from your deposition process. The IC6 uses the ModeLock frequency measurement system to provide stable, high-resolution rate and thickness measurement with an industry-leading rate resolution of 0.0043 Å/s every 1/10 second.

IC6-110100 — \$13,150

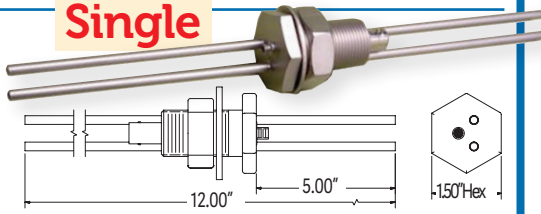
FEEDTHROUGHS

Single

Single 1" Bolt QI2042

\$440

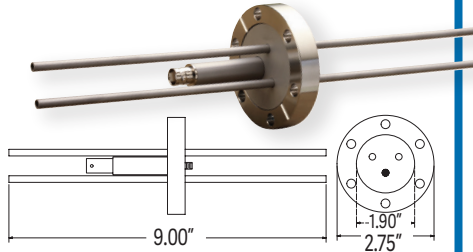
For Single
Sensors



Single 2 3/4" Flange QI2043

\$510

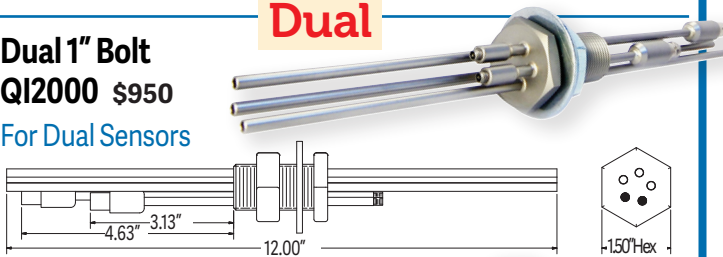
For Single Sensors



Dual

Dual 1" Bolt QI2000 \$950

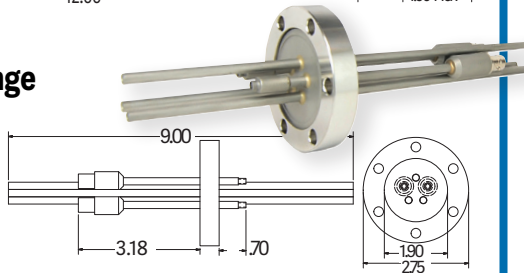
For Dual Sensors



Dual 2 3/4" Flange QI2080

\$1,015

For Dual
Sensors



All feedthrough lines 3/16" OD steel tubing.
Custom feedthroughs available.

Sensor Head Parts, Oscillators and Cables

PART	INFICON		Fil-Tech	
Ceramic Retainer	007-023	\$84	QI7023	\$75
Finger Spring	750-171-P1	36	QI0171	36
Crystal Holder	750-172-G1	91	QI0172	80
Crystal Holder	Fil-Tech Style		QI3010	80
Oscillator	783-500-013	228	180-010	195

CABLES	INFICON		Fil-Tech	
Coaxial 30"	007-044	\$126	QI7044	\$105
Special Length			QI7044X	125
Right Angle			QI7045	105

Cables have an extra layer of Teflon to protect the shielded cable from deposition material, insuring longer life.

CABLES	PHELPS		Fil-Tech	
Unsheathed 8"	Pe16016		QP16016	\$110
Unsheathed 36"	Pe16018		QP16018	110
Unsheathed 48"	Pe16020		QP16020	110

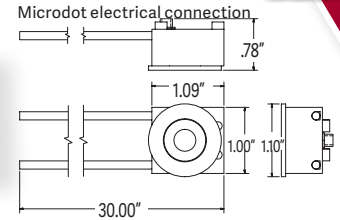
Cables have exposed metal sheath.

SENSOR HEADS

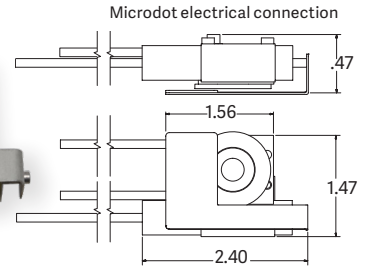
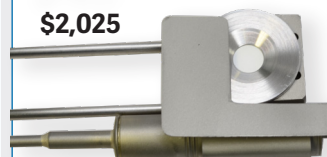
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Single

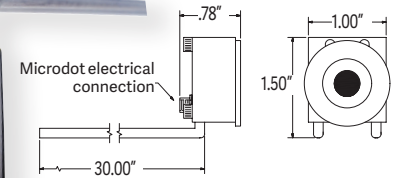
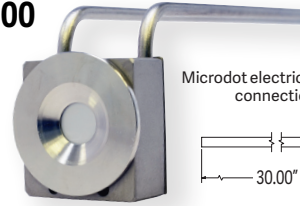
In Line QI3000 \$510



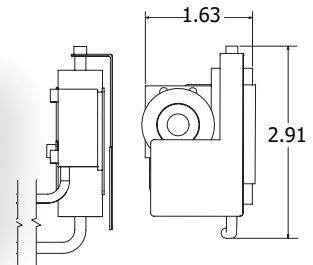
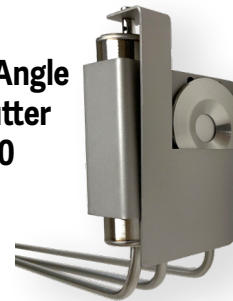
In Line w/Shutter QI5000 \$2,025



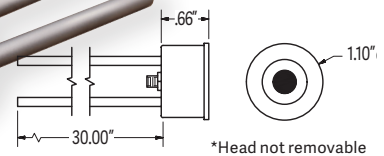
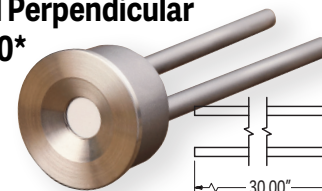
Right Angle QI4000 \$510



Right Angle w/Shutter QI4050 \$2,025



Round Perpendicular QI3500* \$635

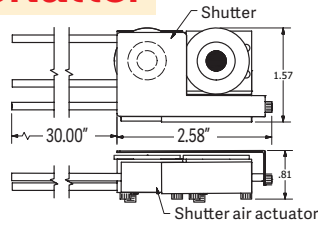
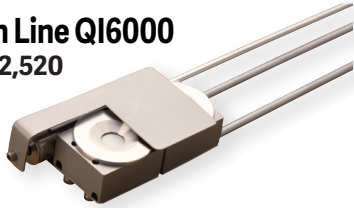


Custom sensor heads, feedthroughs and assemblies available.

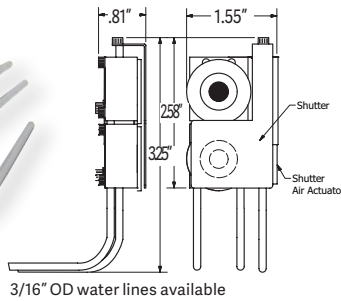
All sensor lines 1/8" OD stainless tubing except QI3600 with 3/16".

Dual with Shutter

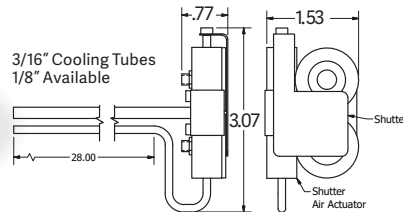
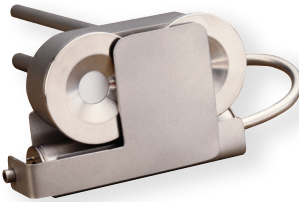
In Line QI6000
\$2,520



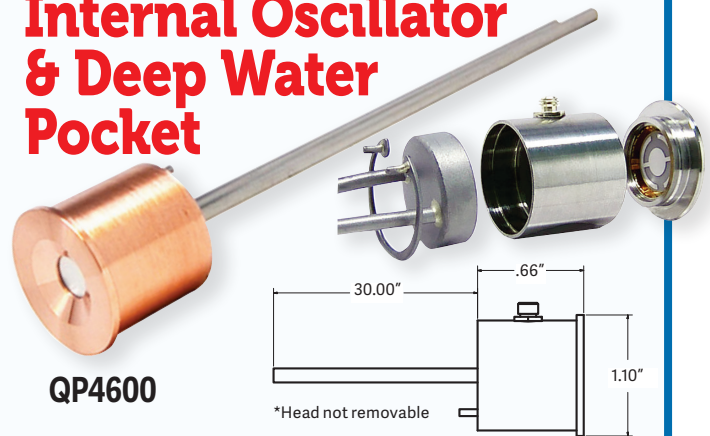
Right Angle QI7000
\$2,395



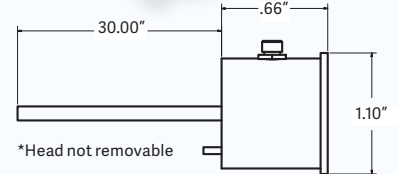
Round Perpendicular QI3600
\$2,455



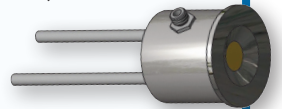
Sensor Head With Internal Oscillator & Deep Water Pocket



QP4600



QP4500



Features

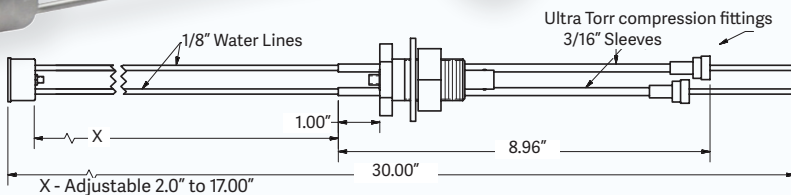
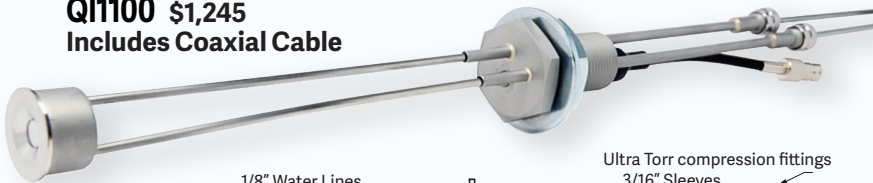
- Stainless steel construction
- Internal oscillator for 5MHz and 6MHz
- Removable from water lines for easy repair
- Deep water pocket for superior cooling
- Copper construction option for superior cooling

Sputter Head, SS	QP4500	\$660
Sputter Head Cap, SS	QP4501	85
Sputter Head, Copper	QP4600	725
Sputter Head Cap, Copper	QP4601	100

Specify crystal diameter for correct crystal holder style

Positional Sensor Heads

QI1100 \$1,245
Includes Coaxial Cable



QC12 Crystal Sensor System

Sensor head holds 12 crystals and allows continuous monitoring without process interruption

System Includes

- 2 Multi-crystal sensor heads
- 2 1" bolt or 2 3/4" flange feedthroughs
- Controller
- Vacuum, air and cooling cables
- 12 Complimentary Quality Crystals

The QC12 is precise and reliable and features a small footprint with easy installation and reload. Compatible with INFICON, Sigma, Maxtek and Sycon monitors.

POR



Bakeable Sensor Heads

Our Bakeable Sensor Heads are used for UHV and High Temp processes up to 300° C. The QI1200 is TIG welded to a rotatable conflat flange. A 1" baseplate bolt is available but the Viton O-ring will limit the temp to 205°C. The coaxial connection is sealed inside a rigid 3/16" OD stainless steel tube with cable included. Cooling tubes are 3/16" OD to maximize cooling. Sensor heads can be built to order with your choice of feedthrough type and length.

QI1200 \$1,265 Includes Coaxial Cable

