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Σ **Sigma Instruments**

An introduction to Sigma Instruments

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⊕ Who is Sigma Instruments ?

⊕ Incorporated in 1995
in Fort Collins, Colorado

⊕ Privately Held

⊕ Founders:

⊕ **George Diehl**

⊕ Background and expertise in design and application of thin film instrumentation

⊕ Previously with Inficon, co-founder of Sycon

⊕ **Gary Halcomb**

⊕ Background and expertise in process and manufacturing

⊕ Previously with Melco, Loveland Controls





⊕ **What do we do ?**

- ⊕ Current products based on Quartz Crystal Microbalance
- ⊕ Current product line is the broadest selection of QCM-based instruments on the market
- ⊕ Private label many products to OEMs and distributors
- ⊕ Sell worldwide through US & international representatives
- ⊕ Offer custom product design & manufacturing services

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⊕ **Sigma Instruments' Expertise**

- ⊕ Vacuum and thin film instrumentation
 - ⊕ narrow focus - we try to be good at one thing - not everything
- ⊕ Analog and digital design
 - ⊕ easy-to-use and integrate into systems
- ⊕ Software
 - ⊕ intuitive, easy-to-use, most Windows-based
- ⊕ Sensor design
 - ⊕ Larry Lu - well-known industry pioneer is under exclusive contract with Sigma to develop new and better thin film sensors and instrumentation
- ⊕ Low cost design and manufacturing
- ⊕ CE approval

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⊕ Current Sigma Products

⊕ Standard Products

⊕ QCM Products

- ⊕ SQM-160 Monitor
- ⊕ SQC-122 Controller
- ⊕ SQC-222 Co-Deposition Controller
- ⊕ SID-242 Co-Deposition Controller
- ⊕ SQM-242 Co-Deposition Control PC Card
- ⊕ SQS-242 Co-Deposition Control Software

⊕ CI-100 Crucible Indexer

⊕ EIES-IV Guardian Deposition Controller (Electron Impact Emission Spectrometer)

⊕ Custom Designed and Manufactured Products

- ⊕ E-Beam Sweeper, Mini-Sweeper, Source Controller





⊕ **Doing Business with Sigma Instruments** - *Current / Standard Products*

⊕ **Standard products for use or resale**

- ⊕ user-friendly design
- ⊕ easy-to-use software
- ⊕ low cost
- ⊕ fast delivery
- ⊕ high reliability
- ⊕ excellent technical support

⊕ **Customized products for use or resale**

- ⊕ custom/private labels (including manuals & packing)
- ⊕ low cost one-time setup charge
- ⊕ fast delivery, can drop ship to your customer

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⊕ **Doing Business with Sigma Instruments** - *Custom Products*

- ⊕ **Sigma/Customer joint products**
 - ⊕ share design costs
 - ⊕ sold exclusively by Sigma and customer
 - ⊕ Sigma manufacturing provides low inventory and per unit cost

- ⊕ **Custom product design and manufacture**
 - ⊕ exclusive to customer
 - ⊕ customer pays development costs
 - ⊕ Sigma is exclusive manufacturer (for contract period)
 - ⊕ low inventory and per unit cost



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⊕ **Doing Business with Sigma Instruments** *- the “bottom line”*

Sigma Instruments is small, flexible, and capable, and we'd like your business. Let us know how we can work with you to help improve your “bottom line.”