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Season's Greetings

Featuring...

- The Seebeck effect
- CryoLab for photovoltaic cells
- Class Leading Performance MFC
- Quality Sputter Targets

*Over 3000
Vacuum
Components*

newxtronix



Seebeck Coefficients

Fast and simple cryocooling to determine Seebeck Coefficients - The Seebeck effect is the direct conversion of temperature differences to electric voltage and vice versa. A thermoelectric device creates voltage when there is a different temperature on each side. Conversely, when a voltage is applied to it, it creates a temperature difference.



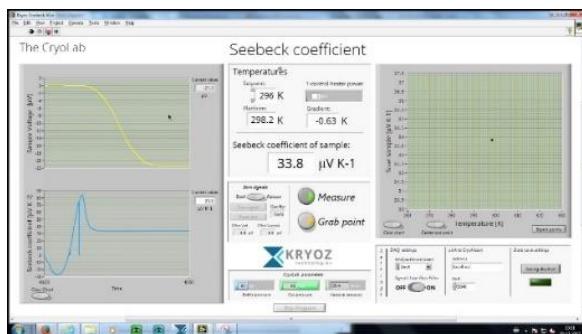
The CryoLab Seebeck package includes:

- The CryoLab S1 - 90 Kelvin
- A high-purity reducer set
- Ultra-sensitive integrated amplifier & sample carriers
- Break-out box, DAQ card and cables
- CryoVision software package and LabVIEW Seebeck VI

Measure from 373 down to 90 Kelvin. Using The CryoLab, it is possible to measure the Seebeck coefficient of a certain material sample from 373 Kelvin down to cryogenic temperatures.

Measure Samples, wires and thin films. Measurement various types of samples. Simply connect your sample to the specific Seebeck carrier and load it to the CryoLab

LabVIEW – Seebeck VI. The data acquisition of your measurement can be done using LabVIEW and the included VI. The measurement is fully automated and the data can be exported for usage with other software.





Cryocooling for Photovoltaic Sensors

Examining the operation of photovoltaic solar cells from 373 down to 90 Kelvin can be interesting. The efficiency of the solar cell can vary as a function of temperature.

Easy Seebeck Sample Loading

Using this carrier, it is easy to prepare your samples and rapidly perform measurements in series.

Measurements can be done fast and in a plug-n-play manner.



Class Leading Performance MFC

This HORIBA SEC-Z700X MFC has reliable thermal sensors & Pressure Insensitive function for stable flow rate control. On-board pressure measurement reduces size and complexity of gas delivery systems.



xtronix Quality Sputter Targets

We supply high purity sputter targets & evaporation materials as well as our world-famous AT-cut xtronix Quality Quartz Crystals for thin film deposition applications.



X-TRONIX Quality Sputter Target
Titanium: 99.95% Purity
3 x 50 mm dia. (+/- 0.1 mm)



Miniature MicroPole RGA

This micro-RGA is the optimal solution for process control or analysis of residual gases in the vacuum chamber. It doubles as a helium leak detector and as a secondary high vacuum gauge.



*Wide Range of Mass Flow Controllers
& Liquid Vaporizers*

CH-1027 Lonay



P. P.

ECONOMY

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X-TRONIX AG • av. de Morges 52 • 1027 Lonay • Switzerland
☎ 021 802 54 90 • ☰ info@xtronix.ch



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