

The CryoLab Series

Measurements at 75 Kelvin were never this easy



HTS ~ Thin films ~ Seebeck coefficients ~ SQUIDS ~ Sensors

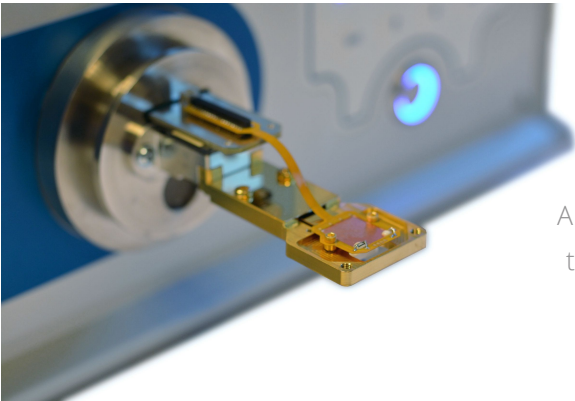
And many more...

www.kryoz.nl

*"An elegant way to perform
all your material characterisation measurements."*

The CryoLab Series

“To 75 Kelvin and back. Simple, controlled and fast”



The CryoLab

A plug-and-play cooling platform designed to rapidly cool down material samples or circuits and perform measurements.

CryoLab Type	S	SP	MSG	MSG for SQUIDs
Temperature range:	90 – 373 Kelvin		75 – 298 Kelvin	75 – 298 Kelvin
Cooling power:	100 mW @ 95 Kelvin		75 mW @ 80 Kelvin	75 mW @ 80 Kelvin
Cool-down time (unloaded):	25 minutes to 90 K		30 minutes to 75 K	30 minutes to 75 K
Integrated vacuum pump:	no	yes	no	no
Application field examples:	HTS ~ Thin film ~ Seebeck ~ Optical sensors			SQUIDs ~ Gradiometers

Direct control

Four buttons to operate all the cooling.



Key Benefits



- Plug-and-play cryogenic measurements
- Fast and controlled cool-down & heat-up
- One system – various applications
- No handling of cryogenic fluids

Click & Cool

All electrical and gas connections are made using quick connects. Simple and fast, so you can focus on your experiment, not the cryogenics.



Seebeck coefficient
characterization



R-T measurements
/ SQUIDs



Van der Pauw
measurements



Sensor
calibration

Application examples

Doing measurements

“An elegant way to perform cryogenic measurements”

3 easy steps

Connect your sample to a flex PCB,
attach it to the CryoLab,
and measure...



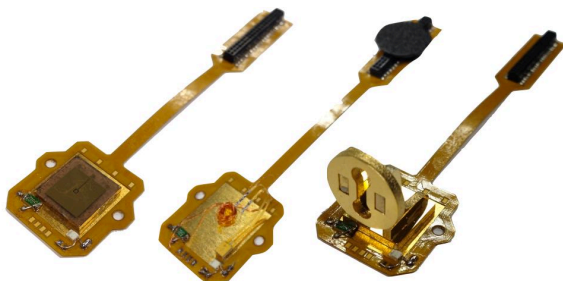
Carrier specifications

- Flexible PCB with 8 user leads & bond/solder pads (CryoLab S / SP / MSG)*
- Flexible PCB with 4 user leads & bond/solder pads (CryoLab MSG for SQUIDs)*
- Maximum sample footprint: 10 mm (0.4") x 10 mm (0.4")
- Maximum sample weight: 1.5 grams

*more on request

Flexible PCB carriers

One loading procedure for all
your measurement types.



Control & Monitor

Access all CryoLab and additional functions using the dedicated software.



CryoVision software features

- Single setpoint temperature control
- Fully automated cool-down / heat-up program runs
- Easy cool-down program creation and editing
- Measurement data import / export
- LabView SubVIs for temperature read-out and control



CryoVision Monitor

Monitor your CryoLab,
anytime, anywhere...

The CryoLab MSG for SQUIDs

“Simple, controlled and fast SQUID measurements”



The CryoLab MSG for SQUIDs

A plug-and-play cooling platform designed to rapidly perform SQUID measurements.

Specifications

- Compatible with both SQUIDs and gradiometers
- Controllable temperature: 75 – 298 Kelvin
- Net cooling power: 75 mW @ 80 Kelvin
- Typical cool-down time: 30 minutes to 75 K
- Typical heat-up time: 15 minutes (75 K to 293 K)
- Standard temperature stability: ± 100 mK

Easy SQUID attachment

to specially designed SQUID carriers.



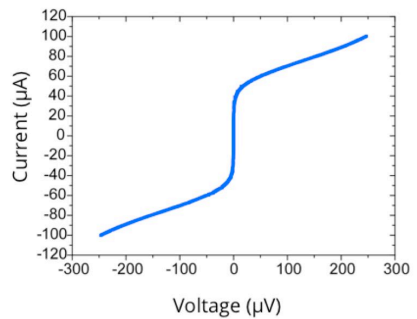
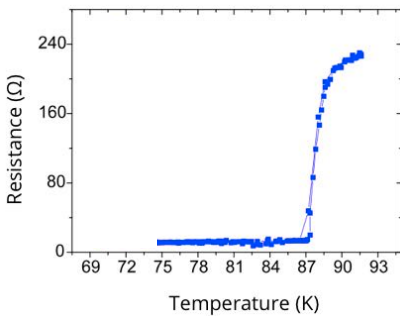
Key Benefits



- Plug-and-play SQUID characterization
- Fast and controlled cool-down & heat-up
- No system interference
- No handling of cryogenic fluids

Insert SQUID electronics

Simply slide the SQUID electronics into the back of the system, minimizing noise.



Characterizing a SQUID was never this easy and fast...

Kryoz Technologies

High value at low temperatures



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