SOLUTION **MAKER**

KERR EFFECT MAGNETOMETERS

Dedicated to your magnetic measurements under ultra-high vacuum

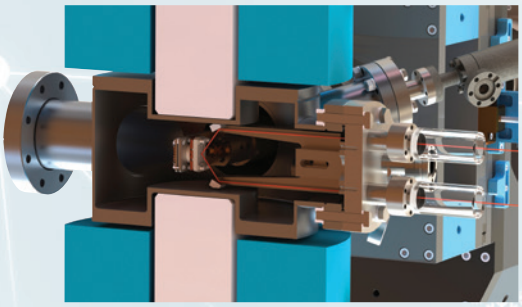
Complete or modular devices, our Kerr effect magnetometers are intended for magnetic measurements under ultra-high vacuum ($P<10^{-10}$ mbar) in a magnetic field range that can go up to 1T. Measurements in polar and/or longitudinal geometry are possible.

Our magnetometers can be equipped with manipulators allowing measurements in a temperature range from 20 K to 800 K. In plane rotation of the sample is also available on request.

Kerr effect magnetometers: complementary modules

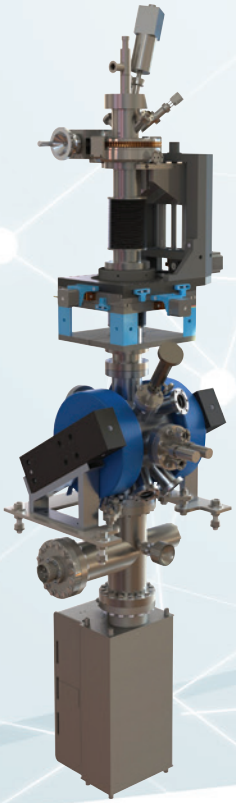
Our Kerr effect magnetometers are proposed as independent modules optimised for measurements in polar or longitudinal geometry and can be interconnected under ultra-high vacuum. These modules can be completed by our ultra-high vacuum deposition chamber (micro MBE) or be coupled with your own UHV equipment. A mechanical damping device can be proposed as an option.

KERR magnetometers in LONGITUDINAL configuration:

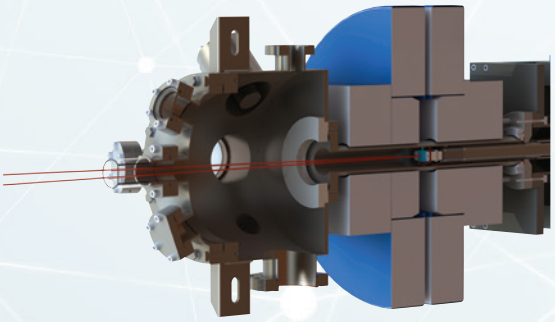


Characteristics:

- Angle of incidence: from 25° to 45°
- Magnetic field: ≤ 0.3 T
- Homogeneity of the field 1% in the sample volume
- Non-magnetic chamber (aluminium) without mechanical constraint
- 20 K - 800 K on the sample



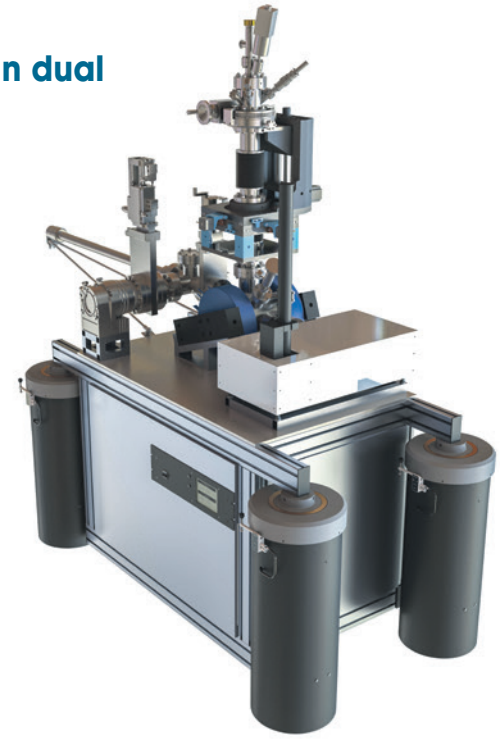
KERR magnetometers in POLAR configuration:



Characteristics:

- Angle of incidence: < 2°
- Magnetic field: ≤ 1 T
- Homogeneity of the field 1% in the sample volume
- Non-magnetic chamber (titanium) without mechanical constraint
- 20 K - 800 K on the sample

KERR magnetometers in dual configuration:



Characteristics:

- Dual geometry (longitudinal AND polar) in single apparatus
- Permutation available under UHV.
- Angle of incidence: from 15° to 45 ° (longitudinal) and < 5° (polar)
- Magnetic field up to 0,3 T
- Homogeneity of the field 1% in the sample volume
- Non-magnetic chamber without mechanical stress
- 20 K - 800 K on the sample

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PACTE LORRAINE

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