

Fiber Optic Sample Holder (VSM)

DynaCool (D320) / PPMS (P320)

For samples exhibiting an evolution of their properties when subject to electromagnetic radiation, the VSM Fiber Optic Sample Holder (FOSH) enables light to be delivered to the VSM sample space during a measurement. A special sample holder, optimized either for the UV or IR ends of the spectrum, couples to a fiber optic carrying sample rod of the same material; on the other end a standard SMA-style feedthrough to the Wired Access Port can be connected to various light sources to provide the desired wavelength of radiation.

Key Features:

- Enables VSM measurements in the presence of electromagnetic radiation
- Specialized sample rod and holder transmitting a wide spectrum and optimized to further include either UV or IR
- Standardized fiber connection ensures compatibility with a wide range of light sources

FOSH Specifications (VSM) (for zero-field)

Magnetic Moment [*m*]

Sensitivity: $< 1 \cdot 10^{-4}$ emu

Sample Space Parameters

Maximum Length: 1.6 mm

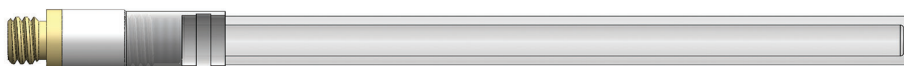
Maximum Diameter: 1.6 mm

Transmittance: $> 60\%$ of 325 nm to 900 nm; UV holder
 $> 60\%$ of 375 nm to 2250 nm; IR holder

Sample Space Parameters 1.8 to 400 K; 0 to 9 T

Specifications are subject to change without notice.

FOSH sample holder



FOSH sample rod



Fiber optic insert

Sample cup lid

Sample cup

Spacer tube

The optional TLS120Xe light source can be used to deliver light to a sample installed in the FOSH. (See page 29 for further details)

