

STA-VOP

VO₂ Phase-Change Characterisation

Track the optical transmission of a VO₂ sample as laser irradiation changes its state. STA-VOP uses dual-path power monitoring and a sample-specific fixture to collect real-time transmission data for phase-transition research.

Measurement method

Irradiate the sample with a laser and record transmitted and reference power. Follow the change in transmission during the experiment and save the data for subsequent analysis.

Features

- Integrated dual-path measurement
- Real-time transmitted-power monitoring
- Custom sample holder
- Stored transmission results

Applications

- VO₂ phase-transition studies
- Optical switching and temperature-responsive films
- Research on optical and optoelectronic materials

System configuration

Parameter	Specification
Model	STA-VOP
Sample	Vanadium dioxide (VO ₂)
Excitation	Laser irradiation
Detection	Dual-path optical-power monitoring
Measured response	Time-dependent optical transmission
Sample mounting	Customised to the sample

Conditions and configuration notes

The material discussion cites a nominal 68 °C phase transition. This is material context, not an instrument temperature-range or temperature-accuracy specification.

Temperature control, response time, hysteresis protocol and transmission accuracy must be confirmed for the supplied configuration.

Specify your measurement

- Film or bulk-sample geometry and substrate
- Probe and heating wavelengths and powers
- Temperature measurement, synchronisation and scan protocol

Prepared by Precisometer. Technical review: 24 October 2026. Confirm the supplied configuration, measurement conditions, accessories and warranty with the quotation.

Precisometer | info@precisometer.com | Product details and enquiry