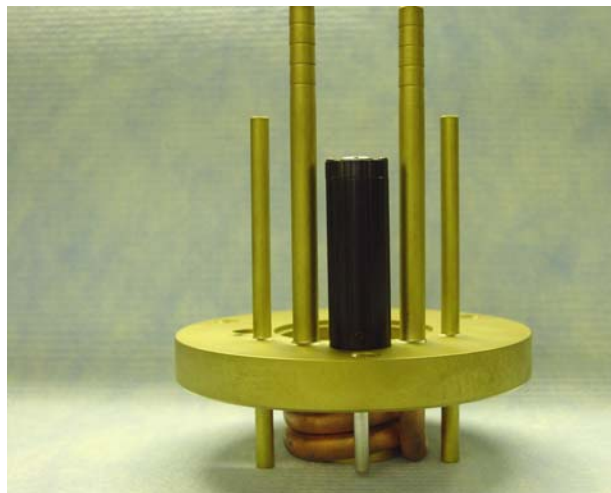


BI-200SMPt Platinum Resistance Thermometer Option

- USB powered
- Direct measurement in vat
- Fully integrated with 32-bit, BI-DLSW software



The BI-200SMPt allows direct measurement of temperature in the index matching liquid near the sample cell. It is no longer necessary to assume the temperature of the external circulator is the same as the cell temperature. Values updated every second in 32-bit, BI-DLSW software and used in calculations.

A USB cable is provided that connects the data interface shown (left) to the PC. Power for the Pt is supplied through this same cable.

BI-200SM goniometers supplied after August of 2006 are ready to accept the screw-in thermometer. Goniometers delivered earlier will require a manifold swap. Careful removal and replacement of a manifold will not disturb alignment. Contact the factory for more information.

Specifications

Temperature Range: -25 °C to +155 °C

RTD: PT1000 DIN43760. Accuracy CLASS "A"

Accuracy: @100 °C: +/- 0.15 raw, +/- 0.01 °C after calibration

Precision: @100 °C: +/-0.01 °C

Includes: Pt, cables, data interface

Communication: USB high speed (10Mb/sec)

Communication protocol: ASCII commands, fully integrated in 32-bit, BI application software.

Power Requirement: Via USB, cable included

Measurement Method: ratiometric, constant current (200 µA)

A policy of continual improvement may lead to specification changes



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