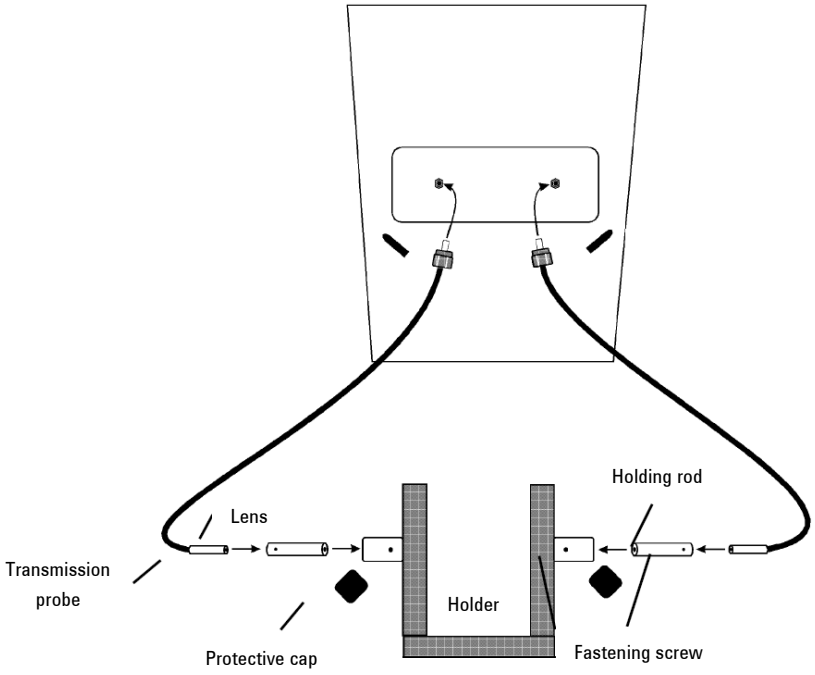
Fiber Optic Transmission Probe Instruction Sheet

The Fiber Optic Transmission Probe is designed to attach to the Cary 4, 5, 400 and 500 Fiber Optic Multiplexer and Cary 1, 3, 50, 100 and 300 Fiber Optic coupler accessories. It allows you to measure the transmission of solid materials.

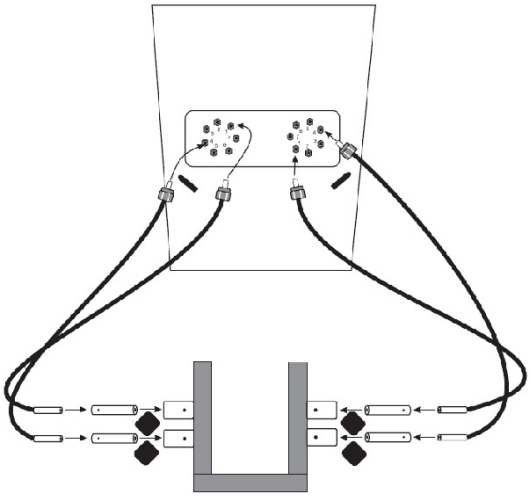
The Transmission probe consists of two single optical fibers, one to deliver the light from the instrument to the sample, the other to collect the light transmitted through the sample and return it to the instrument detectors.

The holder supplied with the Transmission probe allows you to position the ends of Transmission probe against both sides of your sample.



UV-Vis & Vis-NIR transmission probe (Cary 4, 5, 400, 500 series)

This consists of two sets of fibers (UV-Vis & Vis-NIR) and a probe holder with two sets of holes (see diagram on the next page).



Fitting the probe

To attach the Transmission probe to the Cary Fiber Optic Multiplexer accessory:

1. Remove the protective caps from the SMA connectors on the Transmission probe.
2. Push the SMA connectors onto each end of one of the channels on the Fiber Optic accessory (it does not matter which end you connect to which side of the Fiber Optic accessory). Screw them into position. If you are using the Cary 4, 5, 400, 500 Multiplexer, ensure that you have connected each end of the Transmission probe to the same channel number. Check the numbers printed on the front of the Fiber Optic Multiplexer.
3. Remove the protective cap from one side of the Transmission probe. Slide the Transmission probe into the open end of the Holding rod until it will not go any further. Use the allen key supplied to tighten the fastening screw, so that the Transmission probe is held in the Holding rod.
4. Remove the protective cover from one side of the holder.
5. Slide the Holding rod into the Holder, with the lens in the Holding rod towards the center of the Holder.
6. Repeat steps 3 to 5 for the other side of the Transmission probe.
7. Place your sample in the centre of the Holder. Push the two Holding rods through the Holder until they are against both sides of you sample. Use the allen key supplied to fasten the Holding rods into position. You are now ready to measure the sample.

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Part Number: 8510123700

Edition 08/12

Issue 3

Agilent Technologies

679 Springvale Road

Mulgrave, VIC 3170

Agilent Technologies