



mesomatic
fiberoptics



Yokogawa OSA at ETH Zurich.

Optics & Photonics Blog

Ultra High Speed Multichannel Optical Power Meter from Optotest

The OP740 offers a state-of-the-art solution for high-speed optical power measurement applications where multiple channels are needed. Unlike many other systems, this instrument is comprised of individual power meters allowing for simultaneous data acquisition over all channels with unparalleled speed.



Key Features

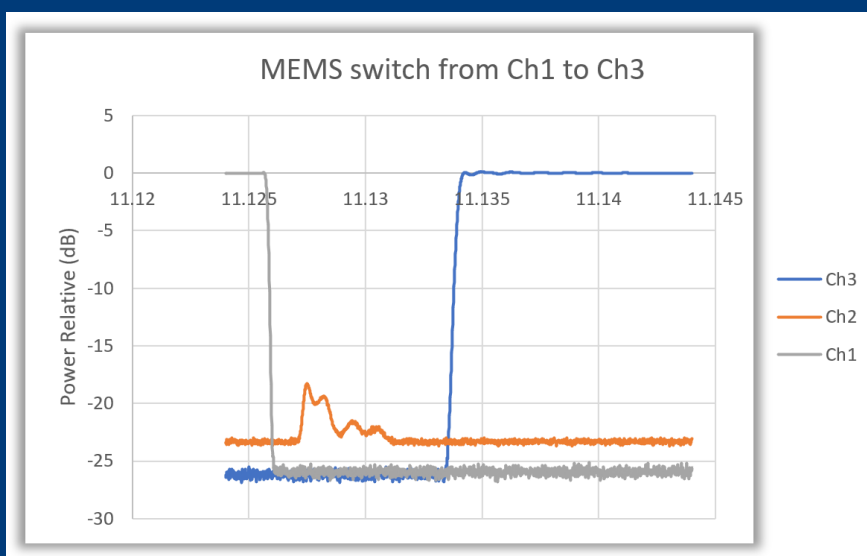
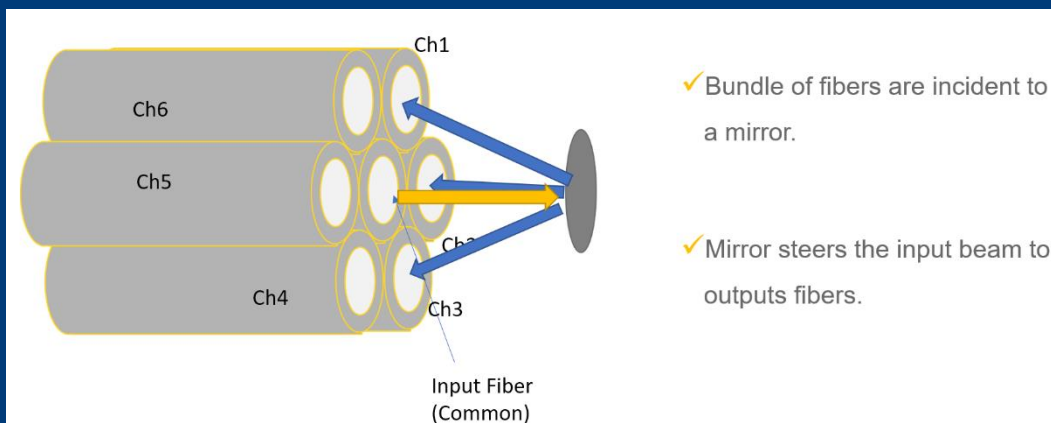
- Up to 24 individual detectors
- 125,000 samples per second on 24 channels simultaneously!
- Broad wavelength spectrum
- Monitoring fast power fluctuations

Application examples

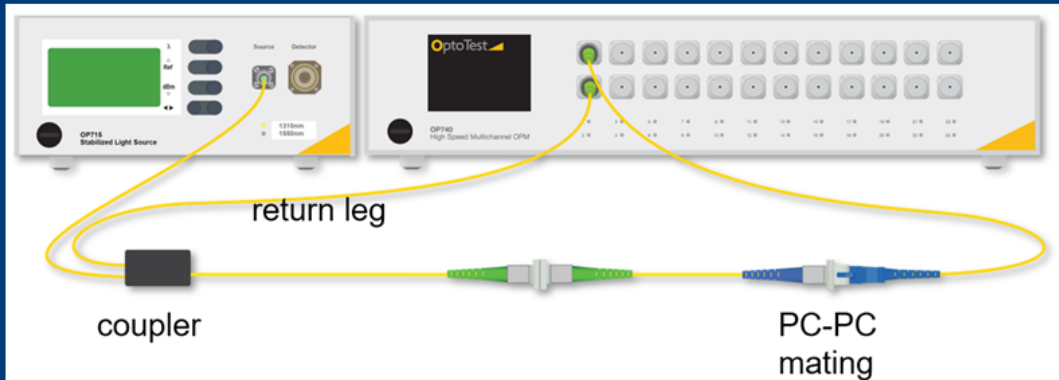
Analyzing an optical MEMS switch:

Due to the high measurement rate, the behavior of the switch can be examined in detail.

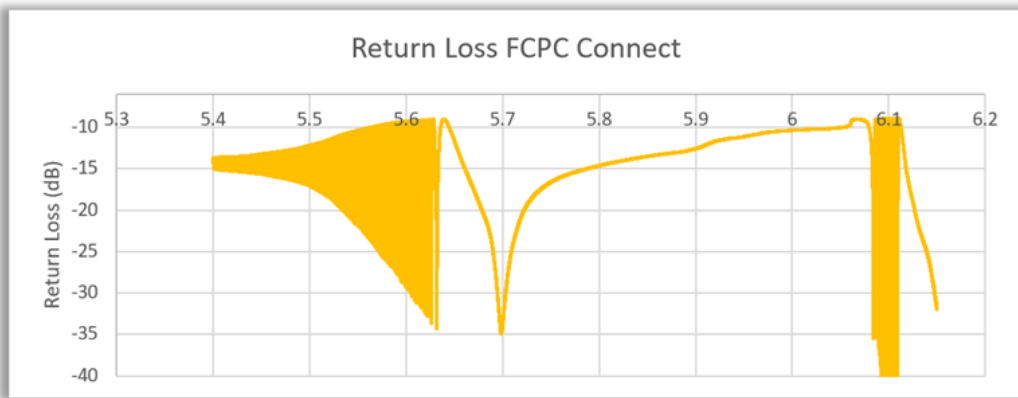
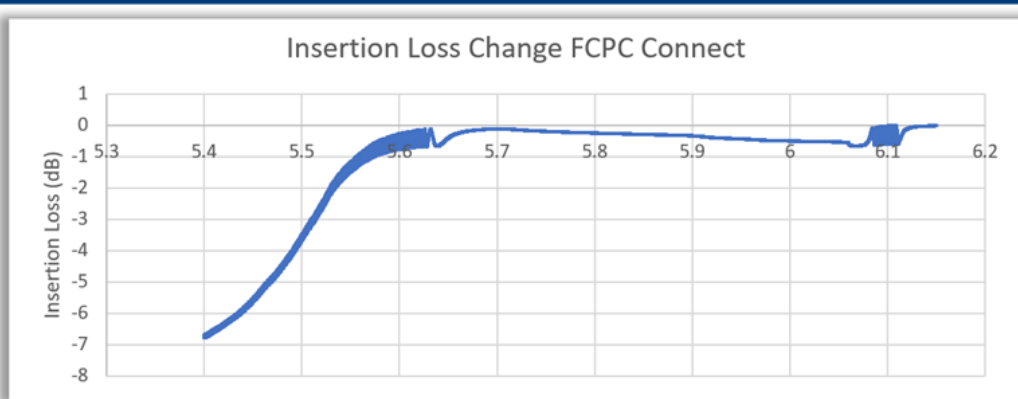
Results: total transition time about 10ms; intermittent signals are minimal.



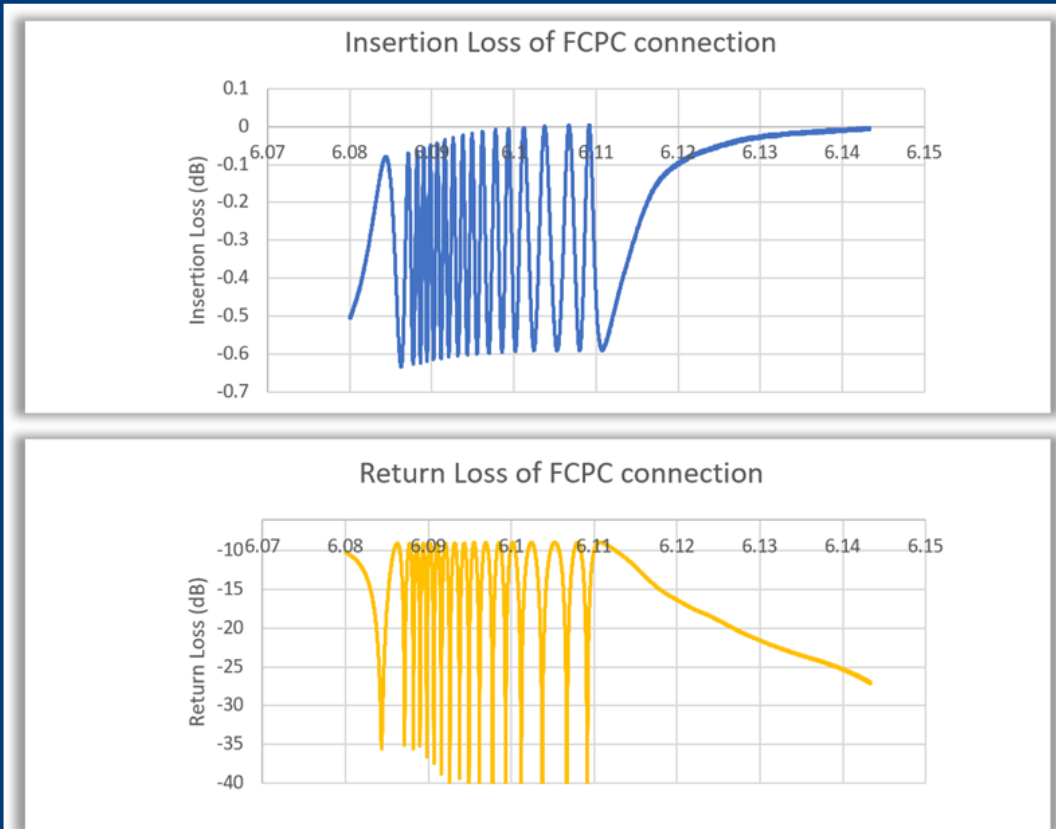
Monitoring connect / disconnect of fiber optic connectors:
Setup: light source, 1x2 coupler, monitor IL and RL of connection
connect / disconnect PC-PC mating



FC PC connect: screw in connector leads to “slow” mating, ~700ms for full mate, slow mating allows for prolonged return loss fluctuations, constructive and destructive interference lead to large return loss variations and small insertion loss variations during connect / disconnect.



Zoom in to see oscillation behavior:



Your Application - our Challenge

Let us know what your optical metrology requirements are. We benefit from a good network and deep knowledge in optics, fiber optics and photonics. It will be an honor for us to help you with your challenge.

[Contact me](#)

I am looking forward getting in contact with you to help you finding solutions for your measuring challenges. I am responsible at Mesomatic Messtechnik AG for the high-end segment in optics & photonics.

Do not hesitate to contact me by phone, email or follow me on LinkedIn - do not miss our new blog entries.

Best regards

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