

BOTDR Measuring Solution

Temperature and Stress Measurement in Optical Networks

Viavi Solutions is the only manufacturer which has developed a BOTDR system that is able to determine if a change in the Brillouin scattering in an optical network has been caused by stress or a change in temperature. Even over long distances, these anomalies can be localized at an accuracy of a few meters. At LASER COMPONENTS, these measuring instruments are available in two versions.

- As part of a stand-alone OTU-8000 or a comprehensive ONMSi system, BOTDR measurement is a welcome addition to 24/7 surveillance of critical infrastructures. A single fiber for the test signal is sufficient to monitor the entire cable over long distances (up to 200 km).
- In an MTS-8000 modular multi-test platform, the BOTDR solution offers additional measurement options for the deployment and maintenance of high-speed networks. The technician can check cables between 100 m and 200 km on site; at distances of up to 10 km, a resolution of just one meter can be achieved.

Brillouin measurements are used to monitor gas pipelines, overhead lines, and bridges. The Viavi solution can be used, for example, to determine whether a fault in a district heating pipeline is due to temperature changes or mechanical influences.

More Information

www.lasercomponents.com/de-en/product/botdr-brillouin-reflectometer/

Trade Shows

SPIE Photonics West, February 05 – 07, 2019, San Francisco, USA, **Booth 1751**
ATX West Automation, February 05 – 07, 2019, Anaheim, CA, USA, **Booth 4166**
BREKO, March 27 – 28, 2019, Wiesbaden, Germany
Automate, April 08 – 11, 2019, Chicago, IL, USA, **Booth 8536**
SPIE DCS, April 16 – 18, 2019, Baltimore, MD, USA, **Booth 524**
ANGACOM, June 04 – 06, 2019, Cologne, Germany
Sensors Expo & Conference, June 25 – 27, 2019, San Jose, CA, USA, **Booth 419**
LASER World of PHOTONICS, June 24 – 27, 2019, Munich, Germany
SPIE Optics+Photonics, August 13 – 15, 2019, San Diego, CA, USA

The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 220 employees worldwide.