Vacuum Fiber Optic Feedthrough







Optical fiber vacuum feedthroughs provide a flexible optical path into a vacuum or pressurized chamber in a pressure range from 10 Bar to 10^{-7} Torr.

A high temperature version (up to 600°C) of the vacuum feedthrough is available with Cu-coated silica fiber assemblies. .

Low-temperature version enables the work up to 4K (Liquid Helium).

Vacuum feedthroughs works in all spectral ranges from 0.2 to $18\mu m$ with different types of optical fibers

Applications:

- ✓ Mid-IR spectroscopy
- ✓ Flexible IR pyrometry
- Illumination/detection for wide spectral range
- ✓ Power delivery for Quantum Cascade Lasers
- ✓ Power delivery for CO- and CO₂-Lasers

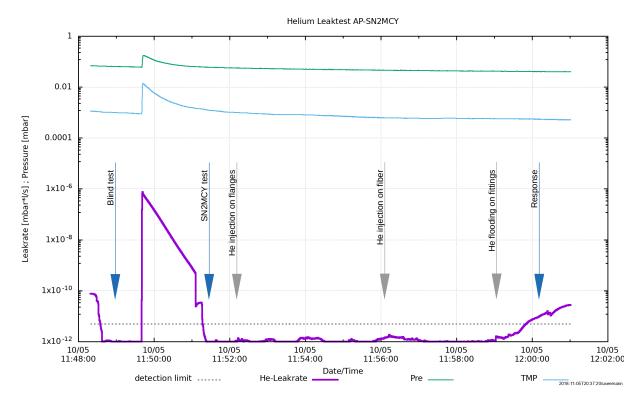
Features:

- Fits to any flange type
- Excellent signal throughput due to single-piece design of the unit
- Movable cable to fit its length inside the vacuum chamber
- Leakage rate better than 5*10-12mbar*l/s
- ✓ Works at temperatures down to 2K

UV	VIS	NIR	MIR

Helium - Leak Test of Vacuum Feedthrough

Leak rate is below detection limit (better than 5e-12mbar *I/s)



Vacuum feedthrough comes with KF, CF and any other requested flange types .



Vacuum feedthrough can be equipped by fiber cables. Fiber cables are available from all kinds of artphotonic's fibers:

- ✓ PIR: <u>https://artphotonics.com/product/polycrystalline-infrared-fibers/</u>
- ✓ CIR: <u>https://artphotonics.com/product/chalcogenide-mid-ir-fibers/</u>
- ✓ Sllica: <u>https://artphotonics.com/product/copper-coated-silica-fibers/</u>

 Indium and Zirconium Flourid Glass fibers: <u>https://artphotonics.com/product/indium-and-zirconium-fluoride-glass-fibers/</u>

art photonics GmbH
 Rudower Chaussee 46
 12489 Berlin, Germany

\$ +49 (0) 30-6779 887-0

S www.artphotonics.com

sales@artphotonics.com

QAS Int. - certified DIN EN ISO 9001:2015 Certificate No. A1887GER

