

TIDAS FOS – Fiber Optic Switch for Spectroscopy



The TIDAS FOS meets the specific requirements for fiber-optics based spectrometer systems in process applications like multi-channel process analyzers. To compensate the longterm drift of light sources, switching to an internal reference channel is possible. An optional integrated cuvette holder allows the in-system validation by using standard cuvettes for an integrated holmium filter. Grey filters can be added for each channel, to enable defined attenuation for high dynamic signals. The channel layout is configurable by design. This allows adapting the TIDAS FOS to the specific needs of a particular application.

The linear multiplexer can be used with all fiber coupled light sources for a wide spectral range from UV to NIR and can be adjusted for special customer requirements.

Specifications

Parameter	Specification
Multiplexed Channels	2 x 5 channels
Insertion Loss Typ.	3dB
Cross talk Typ.	-60dB
Repeatability Typ.	0.005dB
Wavelength Range	190 – 2500nm (limited by fiber material)
Fiber Core Diameter	200µm, 300µm, 400µm, 600µm, 800µm
Connectors	SMA905
Interface	USB, optional RS232, CAN;BCD code
Switching Time Typ.	250ms / channel
Power Requirements	24VDC
Dimensions	Approx. 180 x 70 x 60mm (L x W x H)

We reserve the right to make technical changes without any prior notice.