

# 3A-certified Hygienic Design Transflection Probe for Food and Pharma Industrie



**the probe on the picture is developed for tec5USA**

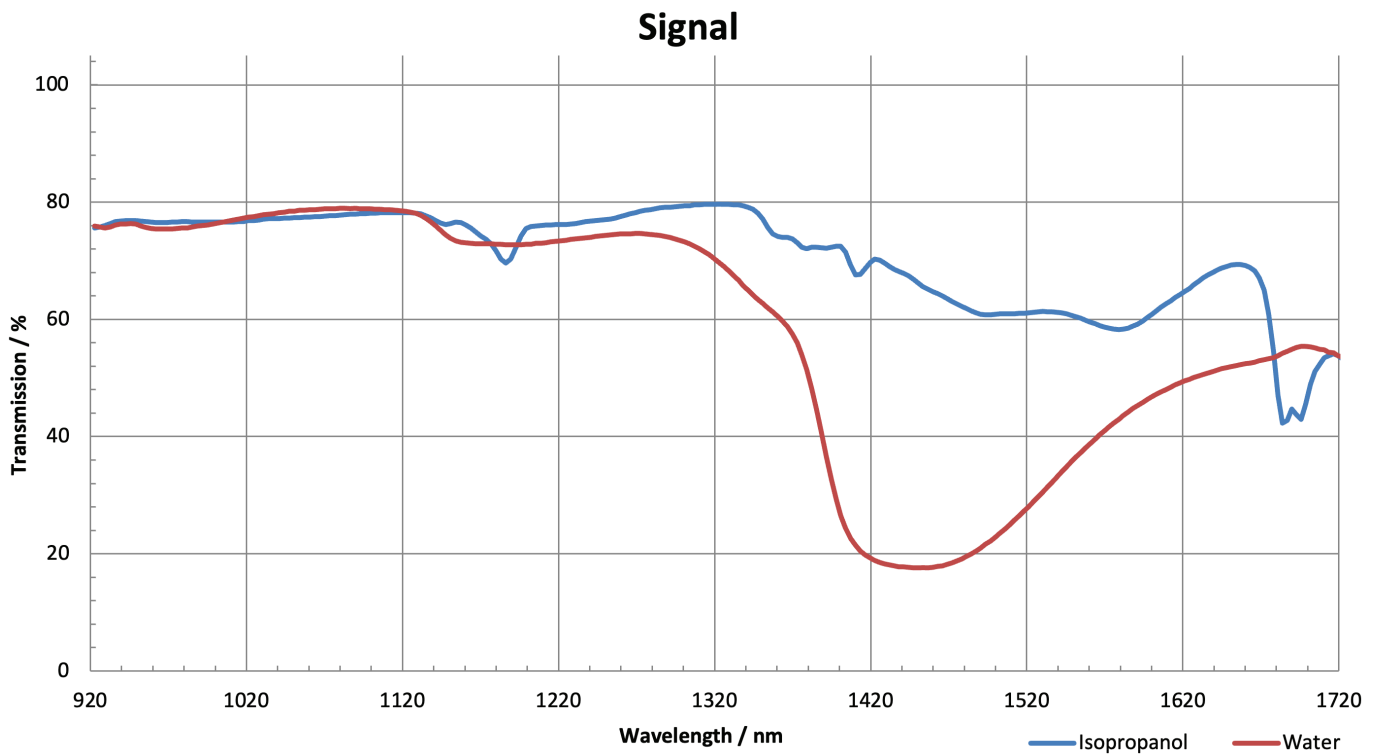
- measurements with the highest hygienic requirements in the pharmaceutical and food industries
- high-quality materials, including sapphire optics
- on-line transmission spectroscopy in wide range of liquids (from transparent to poorly transparent)
- high throughput across the entire UV-Vis or Vis-NIR spectra
- compatibility with all NIR and UV-Vis spectrometers

## **Applications:**

- Pharma, food and beverage industries
- Biopharmaceutical analysis
- Measurements in pipelines and reactors



## 3A-certified Hygienic Transflection Probe



artphotonics is ready to develop 3A-certified Transflection probes for you upon request with the following specifications:

| Specification of Fiber Optic Transflection Probes FlexiSpec® |   |                           |
|--|---|---------------------------|
| Fiber type   | Silica UV-VIS 600/660 µm                                      | Silica VIS-NIR 600/660 µm |
| Operating spectral range                                     | 0.2 - 1.3 µm  | 0.4 - 2.2 µm              |
| Gap (optical path)   | 0.5 mm (1 mm) standard; 2; 5; 10 mm (4; 10; 20 mm) on request |                           |
| Numerical aperture   | 0.22  |                           |
| Temperature range  | from +5°C to +200°C   |                           |
| Immersion depth  | 17 mm; others on request                                      |                           |
| Total length   | 2.0 m (opt. 1- 30.0m)   |                           |
| Shaft length   | 21 mm   |                           |
| Shaft diameter   | 20 mm   |                           |
| Shaft material   | electro polished stainless steel 316L                         |                           |
| Sealing technology   | gold soldered (Au-Sn)   |                           |
| Protective tube material                                     | hygienic food grade conduit and fittings                      |                           |
| Input / Output connectors                                    | SMA   |                           |
| Flange   | tri-clamp fitting   |                           |



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QAS Int. - zertifiziert  
DIN EN ISO 9001:2015  
Zertifikat Nr. A1887GER



ISSUE DATE: July 23, 2024

CERTIFICATE AUTHORIZATION NUMBER: 4019



THIS IS TO CERTIFY THAT

art photonics GmbH

Rudower Chaussee 46, Berlin 12489 , Germany

is hereby authorized to continue to apply the  
3-A Symbol to the models of equipment, conforming to 3-A Sanitary Standards for:

Number 46-04  
46-04 (Refractometers and Energy-Absorbing Optical Sensors)

set forth below

CIP Models: Optical Probes; HD-TF-xx/xx-xx/xx-xx and HD-RS-xx/xx-xx. Optional cable accessory; HD-C-xx/xx-xx. x denotes unrelated codes.

VALID THROUGH: **December 31, 2024**

The issuance of this authorization for the use of the 3-A Symbol is based upon the voluntary certification, by the applicant for it, that the equipment listed above complies fully with the 3-A Sanitary Standard(s) designated. Legal responsibility for compliance is solely that of the holder of this Certificate of Authorization, and 3-A Sanitary Standards, Inc. does not warrant that the holder of an authorization at all times complies with the provisions of the said 3-A Sanitary Standards. This in no way affects the responsibility of 3-A Sanitary Standards, Inc. to take appropriate action in such cases in which evidence of nonconformance has been established.

NEXT TPV INSPECTION/REPORT DUE: **July 2029**