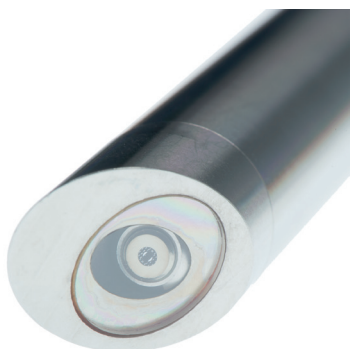


1/2" Industrial Fluorescence Probes

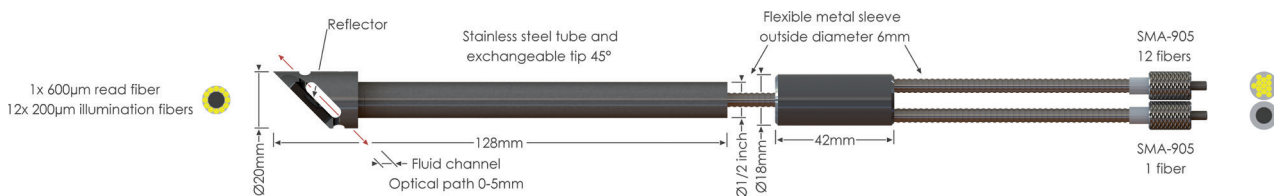


For effective measurement of fluorescence, Avantes offers this specially designed reflection probe. It features 12 excitation fibers of 200 μm around a 600 μm read fiber, which transports the fluorescence signal back to the spectrometer.

To turn the 45° reflection probe into a fluorescence probe, a special reflector accessory, FCR-FLTIP-IND, is attached to the probe end. It prevents ambient light to enter the probe and backscatters the excitation light. This increases the typically low fluorescence signal. The fluid channel path can be varied between 0 and 5 mm.

Technical Data

Fibers Illumination	12 fibers of 200 μm , UV/VIS
Fibers Detection	1 fiber 600 μm
Wavelength Range	200-2500 nm (UV/VIS/NIR)
Connector	2 x SMA-905
Probe End	Stainless steel 316 cylinder, 128 mm long x 12,7 mm (1/2") diameter. The probe end contains a ca. 10 mm diameter x 1 mm thick sapphire window with anti-reflection coating. The probe tip is exchangeable and waterproof. Optionally -PK for PEEK or -HY for Hastelloy® C276
Fluorescence Accessory	See drawing below
Jacketing	The optical fibers are protected by a silicon inner tube and a flexible stainless steel (BX, O.D. 6.0 mm) or chrome plated brass (ME, 5.0 mm) outer jacket. The jacketing also gives stress relieve. Optionally a waterproof, steel reinforced, silicon jacket can be provided
Temperature	-30°C to 100°C. (-HT version 200°C)
Pressure	Probe head 10 bar @ 25°C
Bending	Minimum bend radius: Short term (few seconds) 60 mm, long term: 360 mm



Ordering Information

FCR-UVIR200/600-2-IND	• 1/2" Reflection Probe for fluorescence applications
FCR-FLTIP-IND	• Fluorescence Reflector Accessory for 1/2" FCR-UVIR200/600-2-IND probes

Options

-HT	• High Temperature version (up to 200°C)
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All our broadband fibers are Solar Resistant fibers