VIS-NIT

Polispec VIS-NIT is an extremely robust spectrophotometric sensor, designed to be connected via fibre optics to a variety of measurement probes and lighting sources. Thanks to its particular compactness, Polispec VIS-NIT can be easily integrated into any point of a production line.
The casing is made of anodised aluminium and is available with different levels of protection from liquids and dusts. Fibre optic input with integrated optical modulator, shutter and "neutral density" references.

Dim.   110 x 10,5 x 19,5 cm *(l x h x w)*

Weight   750 g

Material   Anodised aluminium

Sensor   CMOS, 256 pixel

Spectral range   **A**: 340-750 nm
                          B: 580-1080 nm

Average numerical resolution   < 2 nm

Average optical resolution HWHM   **A**: < 7 nm
                                           B: < 10 nm

Optical signal collection   Collimated SMA input

Supply   12 Vdc power supply with supplied power supply

Maximum absorbed power   10 W

Measurement geometry   Multi-level ND attenuation.
Continuous optical attenuation by reducing the input beam along the X axis or in predefined steps (contextual attenuation along X and Y).

Acquisition of references   Automatic internal references

USB communication channel   USB - RS422 / RS485 / RS232
                                     (to be defined when ordering)

Software

poliPROCESS   for in-line measurements for interfacing with PLC automation. Available for continuous acquisitions for filtering and for real-time chemometric predictions.

poliDATA   fully automated software for stand-alone and laboratory acquisitions and chemometric predictions.

poliADK   Windows ADK for software developers. ADK is able to independently manage the optimal settings of the instrument, including calculation of the optimal integration time. The reference acquisition procedure is also automated and is used to apply pre-treatments such as smoothing or interpolation of the spectra. It also extracts raw and post processed spectral information.

ITPhotonics software is compatible with the SensoLogic and UCal Chemometric calibration suites.

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