

Technical Data Sheet

PROGAZE 82 – Non-Contact Probe

PROGAZE®



The **PROGAZE 82** is dedicated to non-contact spectroscopic measurements in the VIS and NIR spectral range. Due to its optical design, the sensor readings are insensitive to sample distance variations, resulting in safe operation and flexible integration. Typical applications for this unit are continuous measurements of bulk materials on conveyor belts or web goods such as textiles, sheets, or paper.

The probe's robust design assures reliable operation under harsh process condition. Using a fiber optic cable, the probe is fully compatible with all standard spectrometer systems. For automated system adjustment and self-diagnosis, the probe provides an integrated white reference. Dynamic status information for system monitoring is accessible via the electronic

interface. The homogeneous illumination and the high sensitivity in combination with the signal's distance independency enables continuous monitoring of fast-moving samples, even with irregular specimen surfaces (bulk materials) or wavering webs. By using pre-aligned illuminants, simple and safe bulb replacement is guaranteed.

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Spectroscopic Method	VIS, NIR
Measurement Type	Reflection
Sampling Type	Non-Contact
Wavelength Range	VIS: 380 - 850 nm NIR: 850 - 2500 nm
Working Distance	20-150 mm
Internal White Reference	Aluminum Oxide
Internal Light Source	1 x Halogen, 20 W
Materials	Housing: 1.4305 Stainless Steel Window: Quartz Window Sealing: Epoxy Glued
Operating Temperature	Ambient Temperature: 0 - 60 °C
Storage Temperature	0 - 80 °C
Relative Humidity	0-95%, Non-Condensing
Mechanical Connector	Mounting Drill Holes (Ø: M6)
Fiber Connector	F-SMA 905
Control Interface	RS 485
Power Supply	24 V DC, 50 Watt
Dimensions (W x H x D)	149 mm x 92 mm x 109 mm
Weight	Approx. 4,0 kg

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