

POLISPEC NIR
INLINE
NON-CONTACT

Non-contact NIR spectrometer for real-time quantitative and qualitative analysis on production lines. Its 256-pixel InGaAs sensor and 900–1700 nm spectral range support monitoring of fat, protein, moisture and sugars. An IP65 anodised aluminium housing and integrated cooling system support industrial operation, while shielded installation protects measurements from ambient light interference.



Dim. 41 x 24.6 x 10.1 cm (l x h x w)

Weight 5.1 kg

Material Anodised Aluminium

IP protection IP65



Sensor InGaAs sensor, 256 pixels, cooled with single Peltier stage

Active cooling system Stability T<0.01K

Spectral range 900-1700 nm

Average numerical resolution 3.2 nm

Average optical resolution HWHM 3.25 nm

Optical signal collection Direct optical coupling

Power supply Spectrometer unit: 12Vdc, 50W
NCMS02 module 10Vdc, 250W (AC/DC Adapter 230 Vac to 10 Vdc with voltage remote sensing included)

Power consumption Spectrometer unit <30W including internal processing module if installed, Light source <16W

Operating temperature From -15°C to +46°C



Options

Internal processing unit: Ethernet (NH) or CANbus (NC)



Type of measurement Reflectance

Measurement geometry Diffuse broad angular/0°

Measurement references Internal and automatic

Communication channels WiFi + RS422 (standard)

Source type Replaceable halogen lamp



Command and signals

PLC: Modbus over TCP - Server, Modbus over TCP - Client, ISO over TCP (Siemens S7); OPC UA Server; Analog output through Modbus to Analog converter; CANbus/ISObus



Software

poliPROCESS Process analysis software compatible with the SensoLogic and UCal Chemometric suites, interface available for ISObus and PLC systems (modbus over TCP).



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