



QualitySpec[®] 7000

Setting a new standard for rapid, non-contact process analysis

Employing state-of-the-art near infrared (NIR) technology, the QualitySpec 7000 supplies non-contact, over-conveyance analysis of process material. The unique system is ideally suited for continuous measurement of solids and blended materials in a range of industries including forest products, mining and food processing. By providing multiple measurements from a single point, the QualitySpec 7000 yields more information quickly, to help make real-time decisions about the process as it changes.

Benefits

- Fast, reliable process analysis
- Non-contact, non-destructive measurement
- Multiple constituent measurements from a single scan
- Measures real-time as process is in motion
- Safe, simple light source — no hazardous radiation, neutron generators or x-rays



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The QualitySpec 7000 is designed for rapid, precise, non-destructive and non-contact spectral measurement for continuous analysis of material as it is being conveyed in the process. Time-consuming sampling and laboratory analysis is eliminated by measuring materials as they move through the process. Data from the analyzer is available for use by a process control system for real-time, closed-loop process control.

At the core of the QualitySpec 7000 is the Goetz spectrometer that uses a simple, safe quartz-halogen light source and leverages proprietary spectrometer technology with a highly sensitive detector array. When combined with chemometric modeling techniques that “calibrate” the analyzer for the constituents of interest, the QualitySpec 7000 is a powerful tool for improved process and quality control.

To gain the full benefit of the QualitySpec 7000, ASD's SummitCAL Solutions Team provides the necessary modeling to fully calibrate the analyzer for the application. SummitCal provides the multivariate modeling expertise necessary to transform sample data into actionable process information.

Improve your process knowledge and increase quality control with the QualitySpec 7000. Contact your ASD sales representative today or visit asdi.com to learn more.

Specifications

Performance

- Wavelength Range 350-2500 nm
- Wavelength Accuracy 1 nm
- Sampling Spot Size 76-100 mm (3-4 in)

Output

- Fast Ethernet; 100 Base-T or 100 Base-FX (fiber optic for distance exceeding 100 meters)
- OPC Server connection to constituents in Microsoft Access® database
- Measure and record two values for up to 20 constituents
- Qualitative or quantitative data for each constituent
- Model Quality Index (MQI), a model quality indicator for each result

Mechanical/Electrical

- Light Source 100 watt quartz-halogen
- Optical Head Mounting Distance 74 cm (29 in), from bottom of optical head box to average material level on conveyor
- Power 230 VAC \pm 10%, 12 amps, 50/60 Hz (Exclusive of Mounting Structures)
- Weight Optical Head 22.6 kg (50 lbs)
Electronics Cabinet 159 kg (350 lbs)
- Dimensions (H x W x D) Optical Head 43 x 41 x 46 cm (17 x 16 x 18 in)
Electronics Cabinet 100 x 122 x 48 cm (39 x 48 x 19 in)

Environmental Considerations

- Temperature Rating -20 to 50° C (-4 to 122° F) ambient
- Humidity 5 to 95% non-condensing

Approvals

- CE Marked

