Presenting...

SpectraProbe® S/8

On-Line Color Measurement of Coated Glass

- Measures first surface reflected color of coated glass
- Continuous, real time measurement
- Fixed point or traversing systems available
- Use on piece or continuous process lines
- Designed for use in harsh environments
- Measurements agree with laboratory instruments
- Automatic standardization and wavelength calibration check
- Measure top side, bottom side or both

HunterLab
Measure Color...Measure Quality

ISO 9001:2000 Certified

Hunter Associates Laboratory Inc., 11491 Sunset Hills Road, Reston, VA 20190-5280
Tel 703-471-6870 Fax 703-471-4237 sales@hunterlab.com • www.hunterlab.com

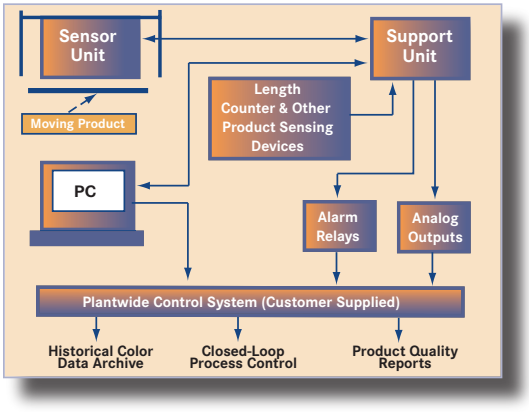
SpectraProbe® S/8

Measure The Specular Reflected Color of Coated Glass

The SpectraProbe® S/8 measures the color of metallic coatings and other highly specular materials. It is designed for high throughput and for use in harsh production environments. Measurements agree closely with laboratory diffuse/8° geometry instruments. The SpectraProbe S/8 offers unparalleled accuracy and performance for real-time, continuous color measurement and is ideal for the on-line measurement of coated glass. Use it to continuously measure the reflectance color uniformity of coated glass during production for process control, quality control, and to keep process records for ISO documentation.

Measurement Versatility

The system consists of a spectrophotometer sensor, a wall-mounted support unit and EasyMatch® OL for glass software. The sensor is supplied with a specially designed mounting system for fixed point or traversing color measurement. The mounting systems also provide automatic calibration and emergency retraction from the line. One SpectraProbe S/8 can be used to measure the top or bottom side of the glass and with two sensors, both sides can be measured simultaneously. It can be used on piece lines and on continuous process lines.



System Description

SpectraProbe S/8 Sensor

The sensor is housed in a NEMA 4/IP 65 enclosure which provides total environmental protection for the ilumination system, the spectrophotometer and the associated electronics. The illumination system consists of a quartz halogen lamp, combined with a fiber-optic system to provide incident light illuminating 76mm (3") area of the sample. A lens system focuses 8-degree reflected light from the sample to the spectrophotometer optics containing a grating and 76-element photodiode array.

Profile Tests

The sensor can be used to provide measurements across the glass or the length of the glass at user defined intervals.

Standardization

The photometric calibration is automatically performed using a spectrally calibrated first surface mirror that is housed in a pneumatically controlled enclosure.

Automatic Wavelength Calibration Check

An internal solenoid-actuated didymium filter is automatically inserted and removed from the light path immediately after standardization. The wavelength accuracy is determined and any out of tolerance condition is reported to the user.

Support Unit

The SpectraProbe S/8 support unit provides operation commands and power to both the sensor and its mounting system. In turn, the sensor reports color data and other relevant "run" information to the support unit for distribution to the host computer and other peripheral devices. Optional analog ouputs are available for programmable logic controllers (PLC), strip-chart recorders and other peripheral devices.

For more information, please contact HunterLab at 703-471-6870, sales@hunterlab.com or visit www.hunterlab.com