On-Line ID, OD & Wall Thickness Measurement for Tube Applications

The IOW Gauge is an integrated member of the FACTS Total Measurement System (TMS) and Total Line Control (TLC) platforms. The IOW Gauge provides non-contact ID, OD & Wall thickness measurements for tube applications.

Benefits & Payback

- Optical measurement technology
- Non-contact - does not require water coupling
- On-line and non-destructive
- Provides measurement, display, control, alarming, data logging & process analysis capabilities

Features

- Simultaneous measurement of ID, OD & Wall thickness
- Support for multiple sensors along a process line
- Support for multiple probes at each measurement station
- Provided complete with the FACTS Total Measurement System console, measurement sensor and sensor mount
- Completely replace existing measurement systems or integrate measurement sensors from other vendors
How the Measurement Gauge Works

The TM gauge is an optical measurement system that operates on the principle of interferometry and is specifically designed to evaluate the interaction of light reflected from materials with different indices of refraction. An optical probe placed over the target material is used to supply a high intensity infrared light source onto and through the material. As the light transitions into a material with a different index of refraction, some of the light is reflected back. The reflected light is passed through the same probe assembly to a control module where its characteristics are analyzed and ultimately the thickness of each layer and the total thickness are precisely calculated.

Applications

Suitable for any application where the product to be measured allows the infrared light source to propagate through and reflect back. Materials can be transparent, translucent or colored.

Use with the FACTS Total Measurement System (TMS) or Total Line Control (TLC)

The FACTS TMS and TLC platforms provide a range of measurement, display and control capabilities engineered specifically for your application. Whether you need to display your measurement data or fully integrate and control your process, FACTS systems will accommodate your needs.

FACTS Inc. is the leader in process control technology for the polymer market. In fact, we wrote the book on extrusion control—literally. For the Society of Plastics Engineers, FACTS penned the chapter on Extrusion Control in the “Guide on Extrusion Technology & Troubleshooting.”

FACTS Inc. routinely provides new and existing process lines with complete electronic control systems and integrated HMI. Controls provided include, but are not limited to: temperature, speed and pressure control; sequence control; drive and heater systems; profile measurement on control.

FACTS Inc. offers you experience at your fingertips with 24/7 support via Internet or modem.

FACTS Inc. provides the tools to control your bottom line. Contact us today.