BWS305

BWS305 Multiplexer

The BWS305 Multiplexer solutions have proven to be the leading process spectroscopy technology for industrial plant monitoring and control. Up to 16 sample streams can be analyzed, monitored, and controlled with the speed of light to ensure real-time and in-process quality control 24 hours a day, 365 days a year. Our state-of-art multiplexer technology couples unmatched repeatability with minimized insertion loss to produce a system performance of outstanding quality while achieving signal-to-noise ratios which only full light transmission analyzers can perform.

Highlights

- *Up to 16 channels*
- *Hybrid bundle/single fiber design*
- *State-of-the-Art measurement repeatability & reliability*
- *Minimal fiber insertion loss*
- *Full light transmission*
- *Channel switch in less than 250 msec*
- *Rugged design*

Applications

- Petrochemical: Gasoline, diesel, and kerosene blending
- Polymer Industry: Analysis for chemical, physical, and mechanical properties of polyolefins and resins
- Pharmaceutical/Chemical Industry: Reaction monitoring, blending, solvent recovery, and 100% inspection
- Dairy Industry: Fat, protein, pH, and more
- Pulp & Paper: green, white, and black liquor process control and monitoring

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Typical Specifications

Spectral Range	**0.2 - 1.1 μm for UV-Vis** **0.4 - 2.5 μm for Vis-NIR**
Optical Fiber Cable	**High OH silica fiber for UV-Vis** **Low OH silica fiber for Vis-NIR**
Channel Number	**2 - 16**
Optical Switch Number	**1 (or 2 with added accuracy)**
Repeatability	**> 99 %**
Insertion Loss	**13% (0.6 dB) type., 24% (1.2dB) max.,** **Connector loss not included**
Switching Time	**< 0.25 sec for adjacent channels** **< 1.0 sec for any two channels**
Software	**Command set**
Communication Software	**RS 232 standard**
Multiplexer: Size and Weight	**~ 5.7" x 5.6" x 5.0" , 1.7 lbs**
Driver: Size and Weight	**~ 9.2" x 6.5" x 2.2" , 2.8 lbs**
Power Requirement	**100 - 240 VAC, 50/60 Hz**
Channel Uniformity	**Standard deviation ~ 0.005 %**

Driver

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