# BWS OnlinePro™ Series

## UV/Vis/NIR Industrial Online Analyzer



**T**he OnlinePro™ analyzer products are designed for use in industrial applications as on-line process measurement and control units by measuring sample diffuse reflectance, transmittance and with options of fluorescence or Raman scattering characteristics. The system is integrated with a unique long lifetime light source, grating based broadband array spectrometers, of covering 400-1,700 nm or 400-2,200 nm and with an option of reaching to 200 nm, an air curtained sampling window, and a temperature regulation system. By use of high dynamic range array detector based spectrometers the system offers advantages of highly reliable no-moving parts design and a high speed data acquisition of over 50 complete spectra a second along with a plug-and-play USB interface.

Together with a NEMA 4X or IP 65 enclosure the BWS analyzer is rugged and well suited for industrial on-line applications. The OnlinePro™ is also optimized for minimal maintenance with a long lifetime illumination light source of typically over 10,000 hours. Equipped with an air-curtained sampling window the optical path of the system is protected from dust and moisture.  A motorized standard material referencing mechanism option is available for meeting automated production line requirements. The analyzer is temperature cooled and regulated to within +/- 1 degree C of its setting which makes the system ideal for long term high performance operations in demanding environmental conditions.

## Features

· No moving parts
· High speed to >100 spectra per second
· Covering 400-1700 or 2200 nm
· 200 -2200 nm UV-NIR option
· Diffuse reflectance measurement via 0/45 geometry
· Optional transmittance, fluorescence and Raman setups
· USB 2.0/1.1 plug-and-play
· NEMA 4X Or IP 65enclosure
· Temperature cooled and regulated to 30 +/- 1 degree C
· Air-curtained sampling window, dust and moisture free
· Custom configuration options
· Automated referecing option
· General purpose operation software and custom software development kit provided