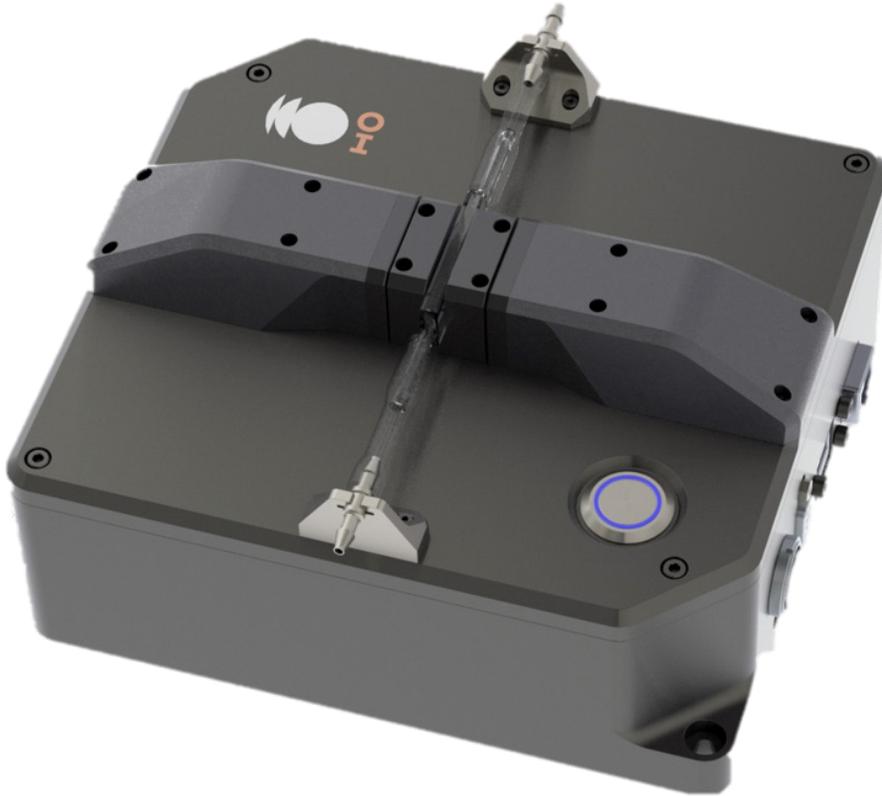




LTMS Liquid Transmission Measurement System



Ruggedized Solution for Real-time, In-line Monitoring

LTMS is a spectroscopy-based system for real-time, in-line color and concentration monitoring of liquids including industrial dyes and plating baths, ingredients in foods and beverages, and chemical coatings for metals. The system comprises a rugged transmission/absorption platform with a compact benchtop configuration. A built-in cuvette holder and flow-cell setup are included. LTMS mitigates the need for QC lab inspection and makes it possible to more readily address quality issues.



At a Glance

Wavelength range: 400-700 nm

Optical Resolution: 1.0 nm

SNR: 8000:1*

Cycle time: 40 ms (minimum) to 3-5 seconds

Communication protocol/interface:

TCP/IP over Ethernet • RS-232

RS-485 • ModBUS RTU to PLC

Dimensions (sensor):

180 mm x 160 mm x 100 mm

Dimensions (with integrated pump):

980 mm x 410 mm x 460 mm

Weight (sensor): 4 kg

Weight (with integrated pump): 33 kg

Sample interface: Flow cell or cuvette holder;
customized hard fixturing

Output: Light source-compensated
transmission/absorption

* Using 100 water measurements over 600 seconds.

LTMS has a modular, customizable design, for easy configuration to Visible, UV or NIR wavelengths.

LTMS is made with industrial-grade components, is fully sealed per IP67 protocols, and is designed for manufacturing environments.

Monitoring Color Consistency

LTMS is a powerful tool for managing batch-to-batch color consistency in plating baths for metal parts and dye baths for textiles, and for monitoring liquid concentration levels for chemical coatings and food and beverages.

As an in-line system, LTMS eliminates the need for transporting samples from the production line to quality control labs, removing a process bottleneck and making it possible to more readily address quality issues as they occur.

LTMS is designed with simple operation and flexibility in mind. Minimal technician training is required to run the LTMS, and the system can be moved easily from tank-to-tank to measure new parts and color batches within minutes.

