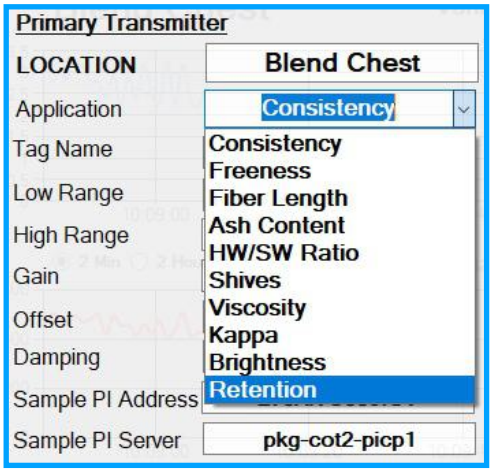
Multi-application P&P Process Analyzer

ProEye™100 Versatile In-Line P&P Process Analyzer

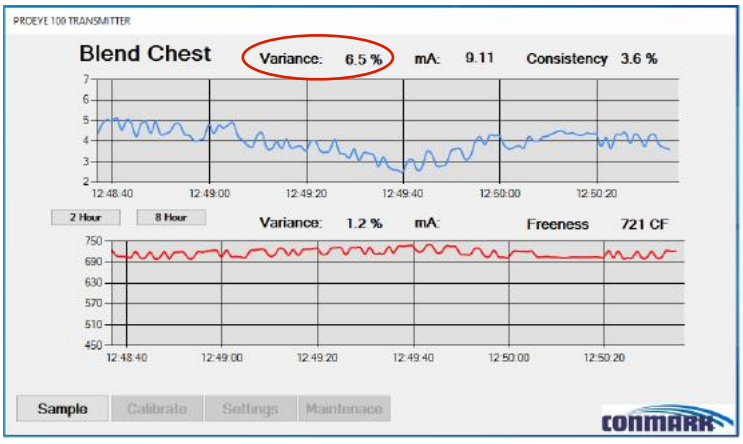
Introducing ProEye™100, a revolutionary measuring tool that employs a novel technique to ascertain the properties of pulp. It utilizes strobed LED lights from the furnish to provide a comprehensive, real-time reading of the pulp's characteristics. This enables prompt decision-making by operations. ProEye™100 possesses the capability to simultaneously measure two parameters, such as consistency and freeness, or ash and consistency. It is ideally suited for chemical, mechanical, and recycling pulp and paper processing facilities. Notably, ProEye™100 requires minimal maintenance, unlike other online measurement tools. In contrast, it offers precise, real-time measurements, empowering operators to exercise greater control over their processes. Furthermore, it is proudly manufactured in the United States and holds a pending patent.

ProEye™100 Applications.

The ProEye™100 Remote Touchscreen Monitor (RTM) enables users to select the application they wish to utilize with the transmitter. Options include Consistency, Freeness, Fiber Length, and more. The RTM can be installed up to 50 feet away from the sensor. The display unit features four binary inputs, four relay outputs, and two 4-20mA outputs, with all connections active. The RTM incorporates an intuitive, menu-driven programming interface complemented by a 7-inch color touchscreen, facilitating setup, calibration, and troubleshooting. Notably, RTM is based on Windows 11, ensuring user-friendliness.



A cost effective solution and a "Real-Time" alternative to other expensive measurement analyzers.

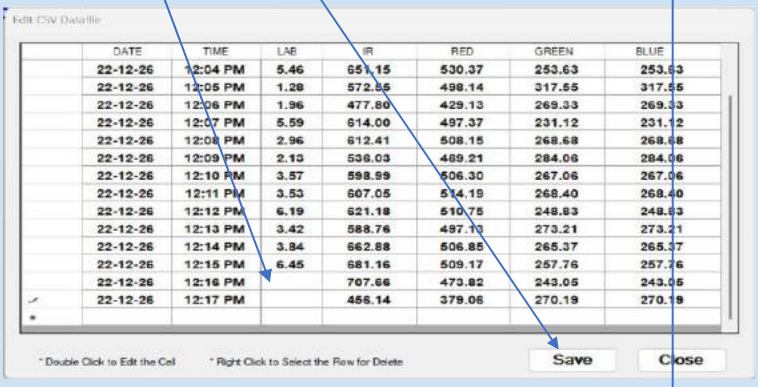


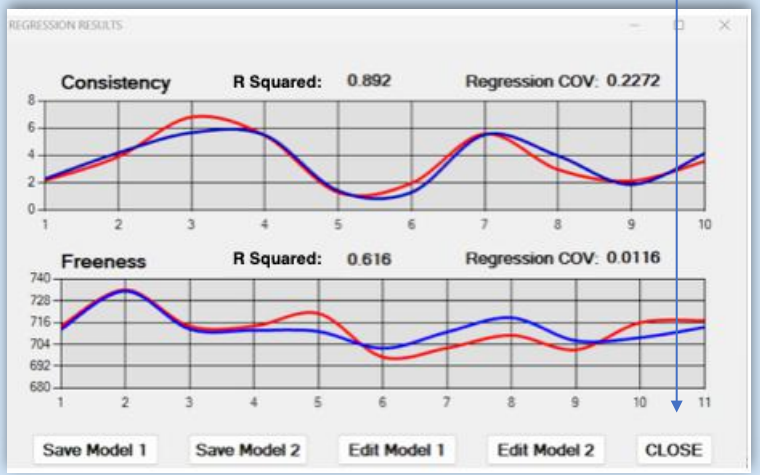
Key Features of the Pro-Eye100:

- **A "Real Time" process measurement.**
- **Calibrates itself if user chooses to.**
- **Two 4-20mA two wire -100mA loop.**
- **No checks on performance needed.**
- **Excellent Repeatability, Linearity and Resolution.**
- **Automatic - Regression-Based calibration. (ProEye™ re-calibrates itself)**
- **Immune to process variations.**
- **Wi-Fi (Cell) connection from anywhere.**

Calibration:

1. Press the Sample Button - Analyzer adds measurement data to its memory.
2. Activate Calibrate page. Press “Edit Model 1 or 2”.
3. Enter lab sample results in the empty cell.
4. Press “Save” and analyzer calculates new calibration coefficients.
5. If the new model is acceptable, touch the “Close”.
6. See the effects of the new values on the “Main Display” page on the Touchscreen Monitor.





Technical Specifications:

Two 4-20mA outputs, 1 primary measurement and 1 secondary measurement.
Process temperature: 40 to 250 ºF, 4 to120 °C
Material of wetted parts: AISI316L, Titanium
Lens: Sapphire bonded to metal, no seals.
Cs Range: 0 to 12% Freeness Range: 100-760

User Information:

Setting up and manually calibrating the ProEye™ is a straightforward process. It is equipped with an advanced mathematical library that enables it to analyze samples, calculate correlations, regressions, and simulation modeling, among other capabilities. By integrating the PI link, the ProEye™ gains access to historical loop information, facilitating its learning and improvement of calibration. This SPC tool assists the ProEye™ in determining when adjustments to the calibration are necessary. Utilizing statistical techniques, it assesses the deviation of readings from previous calculations and, if required, automatically adjusts the transmitter settings to align with the updated process conditions. Notably, the ProEye™ consistently maintains its accuracy and delivers flawless performance.