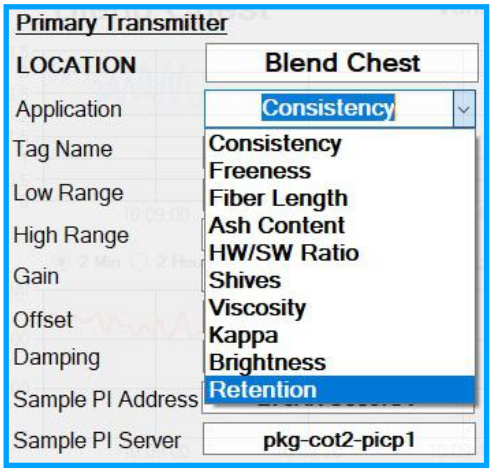
Multi-application P&P Process Analyzer

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

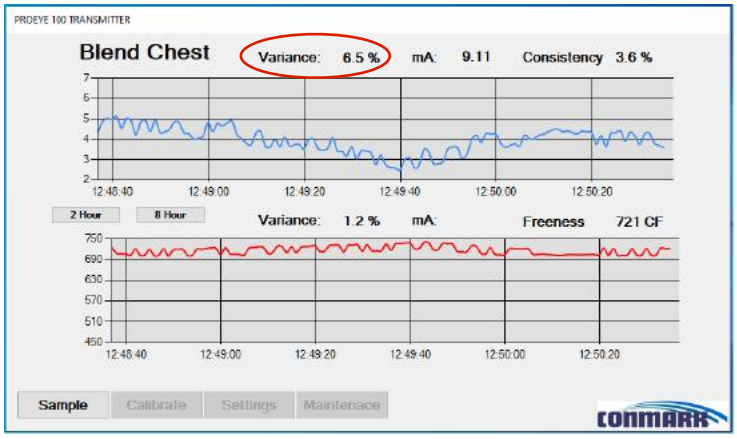
ProEye™100 uses a proprietary measuring technique to determine the Properties of the pulp by calculating a matrix of strobed LED responses from the furnish. ProEye™ 100 produces a real time Pulp properties reading for use by operations. ProEye™100 has two independent process variables it can measure simultaneously, like Consistency and Freeness or Ash and Consistency. Typical applications include chemical, mechanical and recycle pulp and paper machines. ProEye™100 does not require maintenance. Unlike other on-line measurement technologies, ProEye™100 provides a real-time process measurements for more precise process control. ProEye™100 is 100% manufactured in US and is patent pending.

ProEye™100 Applications.

ProEye™100 Remote Touchscreen Monitor (RTM) allows the user to select from the menu, the applications they want to utilize with the transmitter. There are options for Consistency, Freeness, Fiber Length and Others. RTM can be installed 50 ft or more from the sensor. The Display unit has 4 binary inputs, 4 relay outputs and two 4-20mA outputs. All connections are active. Intuitive, menu driven programming with 7" colour touch screen makes for easy set-up, calibration and troubleshooting. RTM is Windows 11 based user interface for easy usability.



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.**

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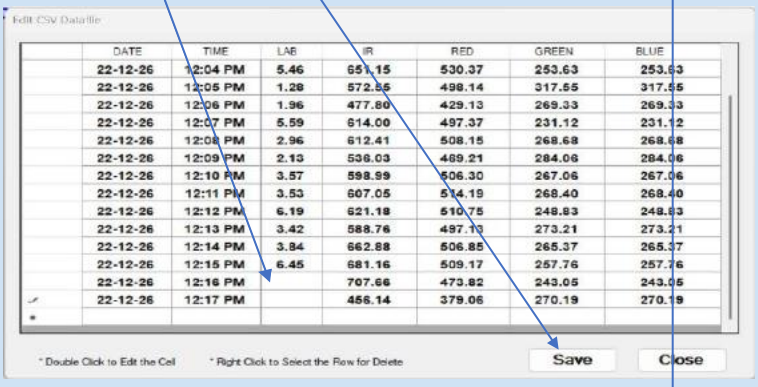
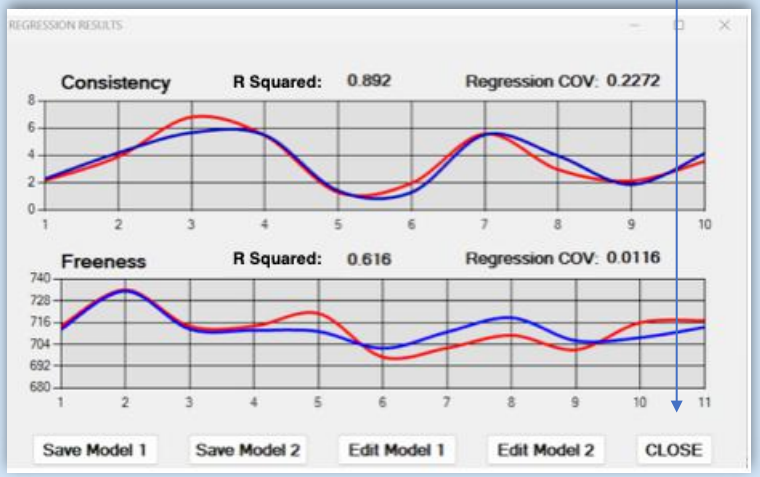
Calibration:

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 parameters and manually calibrating the ProEye™ is easy. The ProEye™ has an advanced mathematical library to evaluate the samples and calculate correlation, regression, and simulation modelling needed for application control. Inputting the PI link adds historical loop information to the calibration calculation expanding its knowledge base. This SPC tool helps the ProEye™ determine when an adjustment to the calibration is necessary. ProEye™ employs statistical techniques to evaluate the deviation of the readings from the previous calculations and if warranted adjusts the transmitter settings, automatically, for the new process conditions. The performance is that the ProEye™ is always on target and performing accurately.