

Multiapplication P&P Process Analyzer

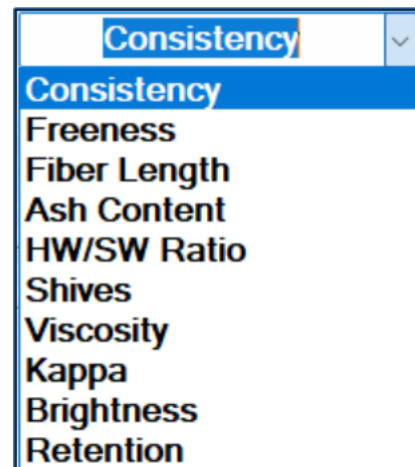
Pro-Eye 100 - A Versatile “In-Line” Process Analyzer

Pro-Eye 100 uses a proprietary measuring technique to determine the properties of a pulp by calculating a matrix of strobed LED responses from the furnish. The Pro-Eye 100 produces a real time pulp properties reading for use by operations. Pro-Eye 100 has two independent process variables it can measure simultaneously such as Consistency and Freeness or Ash and Consistency. Typical applications include chemical, mechanical and recycle pulps and furnishes to the paper machine. Unlike other on-line measurement technologies, Pro-Eye 100 provides real-time process measurements for more precise process control. Pro-Eye is 100% manufactured in USA and is patent pending.

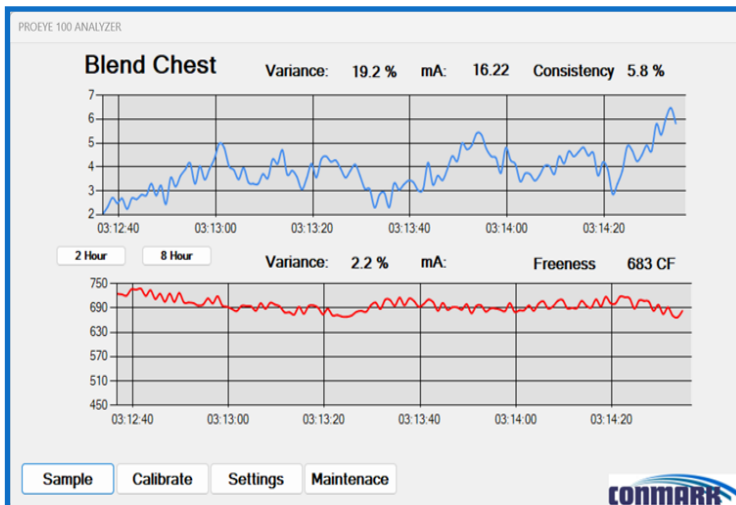
.Pro-Eye 100 Applications.

The Pro-Eye 100 Remote Display Unit (RDU) allows the user to select from the menu the applications they want to utilize with transmitter. There are options for Consistency, Freeness, Fiber Length and Others. RDU can be installed 45 ft or more from the analyzer. The Display unit has 4 binary inputs, 4 binary outputs and two isolated 4-20mA outputs. All connections are active. Intuitive, menu driven programming with 7” color touch screen makes for easy set-up, calibration and troubleshooting. RDU is Windows 11 based user interface for easy programming.

Programming Menu



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



Key Features of the Pro-Eye100:

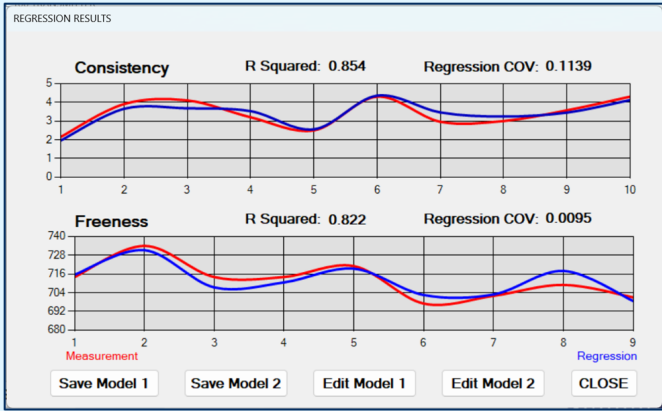
- ◆ A “Real Time” process measurement.
- ◆ Calibrates itself if user chooses to.
- ◆ Two 4-20mA two wire -100mA loop.
- ◆ No checks on performance needed.
- ◆ Excellent Repeatability, Linearity and Resolution.
- ◆ Automatic - Regression-Based calibration. ProEye re-calibrates itself.
- ◆ Immune to process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

Calibration: One application at the time.

- Press the Sample Button - Analyzer adds measurement data to its memory .
- Activate Calibrate page. Press edit model.
- Enter lab sample results in the empty cell.
- Save to the database and analyzer calculates new calibration coefficients.
- If the new model is acceptable, save it.
- See the effects of the new values on the Main Display page in the RDU.



Date	Time	Lab	IR	RED	GREEN	BLUE
1/20/2023	14:08	2.2	2224	2260	2228	2224
1/21/2023	14:11	3.9	2030	1973	2205	2031
1/22/2023	14:13	4.1	2111	2072	2008	2112
1/23/2023	14:16	3.2	2129	2080	2038	2130
1/24/2023	14:18	2.5	2097	2161	2098	2098
1/25/2023	14:20	4.3	2161	2014	1982	2162
1/26/2023	14:23	2.9	2183	2121	2127	2183
1/27/2023	14:24	3.1	2021	2074	2080	2022
1/28/2023	14:28	3.6	2064	2124	2068	2064
1/29/2023	14:50		2257	2136	1949	2257



Technical Specifications:

Two 4-20mA outputs: 1 Primary and 1 Secondary.
 Process temperature: +40...+250°F, 4 to 120°C
 Material of wetted parts: AISI316L, Titanium
 Lens: Sapphire bonded to metal; no seals.
 Consistency Range: 0 to 12%
 Freeness Range: 100-760

User Information:

Setting parameters and manually calibrating the Pro Eye is easy. The Pro Eye has an advanced mathematical library to evaluate the samples and calculate correlation, regression, and simulation modeling 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 Pro Eye determine when a adjustment to the calibration is necessary. Pro Eye 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.

