ProEYE®

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

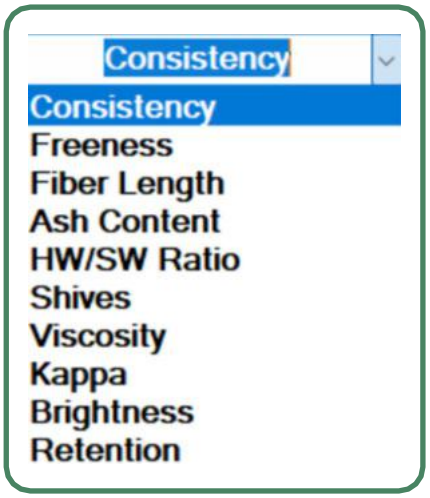
Multiapplication P&P Process Analyzer

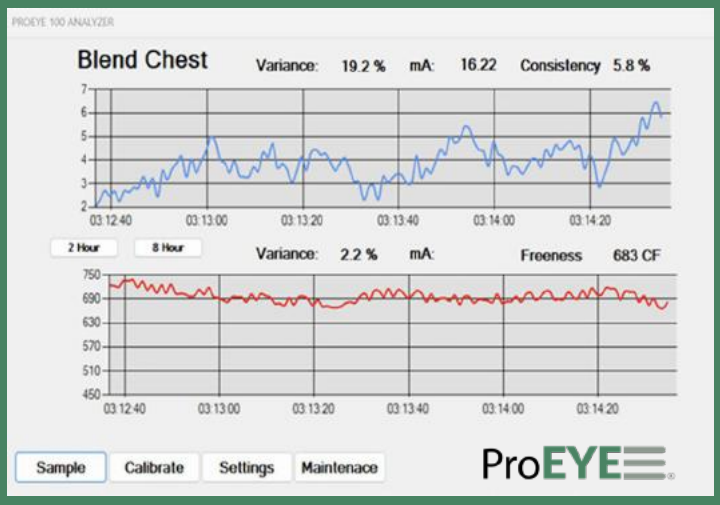
ProEYE® 100 – Versatile "In-Line & Real Time Process Analyzer

The ProEYE® 100 uses a proprietary measuring technique to determine the properties of pulp by calculating a matrix of strobed LED responses from the furnish. The ProEYE® 100 produces a real-time pulp properties reading for use by operations. The ProEYE® 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 recycled pulps and furnishes to the paper machine. Unlike other on-line measurement technologies, The ProEYE® 100 provides real-time process measurements for more precise process control. The ProEYE® 100 is manufactured in the USA and is patent pending.

ProEYE® 100 Applications

The ProEYE® 100 Remote Display Unit (RDU) allows the user to select from the menu applications that they want to utilize with the transmitter. There are options for: Consistency, Freeness, Fiber Length, and others. The 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 a 7" color touch screen makes for an easy setup, calibration, and troubleshooting. The RDU is a Windows 11-based user interface for easy programming.





Key features of the ProEYE®100:

- A "Real-Time" process measurement.
- Calibrates itself if the 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, and turbulence.
- Wi-Fi (Cellular) connection from anywhere

A PRODUCT OF

MULTIPLI machine inc.

3380 Denver Drive Unit B Denver, NC 28037 980-577-6885 www.multiplimachine.com

Calibration:

One application at a 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

Process temperature: 32 -280°F (0-120°C)

Material of wetted parts: AISI 316L, Titanium

Lens: Sapphire (no seals)

Consistency Range: 0 to 12%

Freeness Range: 100 to 760

Power Required :110 AC 1 Amp

User Information:

Setting parameters and manually calibrating the ProEYE® 100 is easy.

ProEYE® 100 has an advanced mathematical library to evaluate the samples and calculate correlation, regression, and simulation modeling needed for application control.

The ProEYE® 100 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.

These capabilities are unique and ensures ProEYE® 100 is always on target and performing accurately.

3380 Denver Drive Unit B Denver, NC 28037 980-577-6885 www.multiplimachine.com