

For Continuous Monitoring of Moisture & Oil



Next Generation On-line Analyzer

- Real time results
- Optimize your process and reduce costs
- Easy to Calibrate
- IP67 Rated
- Low maintenance
- True Ethernet capable
- Program upper and lower limits
- Ensure a consistent product
- High temperature configuration available

Blue Sun Scientific has over 20 years of experience creating and implementing NIR online analyzers for quality and process control.

The Falcon 200 is the newest generation NIR photometer for on-line analysis of moisture and oil in food and industrial products.

The Falcon is a highly accurate and rugged solution that can provide you with real time analysis of your production.





APPLICATIONS

The Falcon 200 can be calibrated to analyze moisture and fat/oil in most products. Calibrating the instrument is quick and easy and can be done during installation by a trained Blue Sun technician.

Our most common applications are listed in the table to the right but more are available upon request.

Snack Food
Tobacco
Coffee
Cocoa / Chocolate
Paper
Wood
And more...

INTERFACE



The Falcon 200 is supplied with a wall mountable operator interface complete with display. This is a fully interactive interface which comes standard.

The sensor head as well as the display box may be connect to factory Ethernet for more interactive connectivity.

From the display you can:

- View the constituent readings
- Calibrate the instrument
- Perform a bias adjustment if necessary
- Set a damp time
- View diagnostics such as detector cooler status, signal levels, etc.

HIGH TEMP CONFIGURATION



High Temperature Fiber Optic Head

Patent # 7,294,838

Our patented, high temperature fiber optic head is manufactured to compensate for convective, conductive and radiative temperature issues.

Its unique design allows it to be mounted inside high temperature ovens in +400 °F environments.

As with all of our solutions, we can work with you to customize an implementation to your specific environment and sampling needs.

WHERE WE ARE

Blue Sun Scientific has placed thousands of instruments that are trusted by manufacturers all over the globe.

Our corporate headquarters is located in Jessup, Maryland, USA and we have international headquarters in Prague, Czech Republic and Sydney, Australia.

Additionally, we work closely with a global distribution network of trained specialists and technicians to ensure NIR success on 6 continents.



SPECIFICATIONS

Part Number	BLU-F200-01
Measurement	Reflectance mode
Moisture Range	0.1% - 60.0%
Moisture Accuracy	± 0.01%
Moisture Reapetability	± 0.01%
Fat/Oil Range	0.1% - 50.0%
Fat/Oil Accuracy	± 0.1%
Fat/Oil Repeatability	± 0.1%
Refresh Rate	1 - 99 seconds ; User defined
Optical Reference	Check cells available
Connections	Ethernet for Sensor Head and/or Remote Display
Optical Glass Material	Sapphire
Gauge Cooling	Vortex Cooling Panel Option, Proprietary enclosed and safe heat exchange method available (Does not require customer air or water)
Sensor Enclosure	IP 67 cast aluminum; Food grade stainless steel available upon request
Sensor Dimensions	14.17" x 6.3" x 6.25" (L x W x H) ; 14 lbs
Controller Dimension	8.7" x 5.55" x 2.75" (L x W x H)
Warranty	24 months parts and labor
Power	V ~100-240, 50/60 Hz, 1A / Low Voltage Option: 24V DC, 1.5A