

GREENLIGHT™ Andon Fluid Monitor

Houghton Metalworking Fluid Equipment Solutions

Concentration Control Made LEAN

The **GREENLIGHT™ Andon Fluid Monitor** is a completely self-contained measurement system which sets the new standard for continuous concentration monitoring of metalworking fluids. The modular design includes a sensor housing and flow-through adapter with two push-to-connect fluid ports.

The sensor housing and integrated flow-through adapter are detachable for easy cleaning or maintenance with just a quarter-turn. Red, yellow, and green lights illuminate to indicate if fluid concentration is within specified programmable process parameters. Patented sensor is up to 1000 times more accurate than a typical handheld refractometer.



What is ANDON?

Andon is a Japanese term used in LEAN manufacturing referring to a system of alerting workers to a quality or process problem. The cornerstone of an Andon system is a strong visual control that signals when a particular workstation or process has a problem.

BENEFITS

- Continuous, effortless metalworking fluid quality control
- Uniform concentration control means longer tool life
- Reduced metalworking fluid costs
- Reduced manpower for lab testing and concentration control
- Fewer sump side additives
- Reduced maintenance costs, increased process up-time
- Minimized waste treatment



HOUGHTON®

Fluid Partnerships Making a World of Difference

FEATURES AND SPECIFICATIONS*

Power: 24 VDC, 1.0 A, or 110 VAC 1.0 A with optional adaptor

Display: Basic red, yellow, green alarm LED lights

Sensor: Sapphire lens; 1024 pixel resolution; Minimal tramp oil interference

Refractive Index Range: 0-35 Brix equivalent

Resolution: 0.1 Brix equivalent

Precision: +/- 0.3 Brix

Temperature Range: 5-40°C (41-104°F)

Pressure Range: 0-2.5 Bar (0-36 psi)

Dimensions (L x W x H): 8.2" x 4.7" x 3.1"
(208.3 mm x 119.4 mm x 78.7 mm)

Weight: 1.3 lbs. (590 grams)

Water Resistance: IP64 (NEMA 3) – Protected from total dust ingress and water splashing from any direction

Fluid Input/Output Connections: 5/16" (8 mm)
Push-to-Connect

Availability: 1-2 Weeks

Available exclusively from Houghton International

*Specifications subject to change

SIMPLE SETUP AND MAINTENANCE

1. Run a length of tubing from clean supply metalworking fluid header to the push-to-connect input port on the flow-through adapter.
2. Next, run another length of tubing from the outlet port back to the metalworking fluid sump or trough.
3. Supply power to unit (24 VDC or 110 VAC with optional adaptor), push the power button, and the unit is now in operation. Lights on the front panel of the sensor illuminate based on your programmed settings.
4. A one-time connection between the sensor and any Windows computer allows you to set or change the red, yellow, and green light limit points. Software included.
5. The unit requires almost zero maintenance. The sensor has a sapphire lens that is easy to clean and extremely scratch resistant.



Corporate Headquarters

Houghton International Inc.
Madison & Van Buren Avenues
P.O. Box 930 • Valley Forge, PA 19482-0930
Phone: 610-666-4000 • Fax: 610-666-1376

www.houghtonintl.com