

# Opti-Pro

## Online Fluorometer



### Opti-Pro Online Fluorometer

The Turner Designs Opti-Pro is a low-cost, compact fluorometer designed for control of fluorescent dyes in industrial water systems. The Opti-Pro monitors fluorescence levels and turns feed pumps on and off as needed. Calibrations as well as setting alarms and limits are easily accomplished through the simple user interface. Datalogging allows for analyzing past events and a 4-20 mA output is available for connection to remote monitors. The Opti-Pro is a rugged 24/7 device providing maximum performance, minimal maintenance and solid-state reliability.

### Applications

- Industrial Water Process Control
  - Cooling Towers
  - Boilers
  - Others
- Leak Detection
- Others

### Opti-Pro Specifications

Dynamic Range:

<1 - 300 ppb typical for PTSA

<1 - 100 ppb typical for fluorescein

Sensitivity: <1.0 ppb typical for fluorescein, rhodamine, PTSA and other fluorescent dyes (alternative sensitivity available)

2 Point Calibration (Standard and Blank)

Solid State Light Source and Detector, no moving parts

20,000 Point Datalogger

Isolated 4-20 mA output, 2 x 90-250 VAC, 50-60 HZ, 3 Amp Relays, 1 x 0-5 VDC Relay

Customizable optics (365 - 1100 nm)

Rugged NEMA 4X Enclosure

Power 90-250 VAC, 50-60 HZ, 5 Amps

Physical Dimensions: 11" H x 8" W x 4" D (27.94 cm H x 20.32cm W x 10.16cm D)

Inlet: 1/4" Male NPT,

Outlet: 1/4" Female NPT

Weight: 5 lbs, 2.3 kg

Maximum Water Pressure: 100 PSI

Maximum Sample Temperature: 140°F, 60°C

Ambient Temperature: 40°F to 120°F, 4°C to 49°C

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### Features & Benefits

- Accurate on-line control of industrial processes
- Thru-cell referencing corrects for flow cell fouling and permits longer maintenance intervals
- 20,000 point internal datalogger
- Pump relay 90 - 250 VAC  
50/60 Hz 5 amps, type "F"
- Clean-out post and brushes allow simple maintenance
- Signal output: One 4-20 mA (isolated)
- Compact package for easy system integration

### Introduction to Turner Designs

Turner Designs has more than 20,000 industrial fluorometers installed around the world. Manufacturing instruments since 1972, we set the standard for on-line, field, submersible, handheld and laboratory fluorometers. We specialize in providing sensitive, reliable, easy-to-use fluorometers for industrial and environmental applications. We are an employee-owned company whose people take pride in providing quality instruments and responsive technical service.