

Little Dipper™

Inline Fluorometer



Little Dipper In-Line Fluorometer

The Little Dipper is an accurate, single-channel, light industrial fluorometer which installs directly into industrial process streams. It provides a 4 - 20 mA signal output proportional to the concentration of the fluorophore being measured. The Little Dipper is a rugged, 24/7 sampling device that provides maximum performance, minimal maintenance, and solid state reliability. It can be used with data collection systems to monitor and control the level of treatment chemicals for industrial applications.



2800-000-A	PTSA Little Dipper In-Line Fluorometer
2800-000-F	Fluorescein Little Dipper In-Line Fluorometer
2800-000-C	Chlorophyll <i>a</i> Little Dipper In-Line Fluorometer

Applications

- Industrial Water Process Control
 - Cooling Towers
 - Boilers
 - Others
- Leak Detection
- Reverse Osmosis
- Environmental Monitoring

Little Dipper Electrical Specifications

Power Draw	0.96 W @ 12 VDC (1.2 W maximum)
Input Voltage	8-30 VDC
Signal Output	4-20 mA
Warm up time	5 seconds

Little Dipper Physical Specifications

Material	PVC – Type I, machined plastic
Weight	3.35 ounces (95 g)
Length	5.92 inches (15.04 cm)
Housing Diameter	1.05 inches (2.67 cm)
Maximum Diameter	1.54 inches (3.91 cm)

Mounting Tee Physical Specifications

Material	PVC – Type I, molded plastic
Dynamic Pressure	100 PSI
Threading	1 inch (NPT)
Length	3.44 inches (8.74 cm)

Features & Benefits

- Simple calibration
- Dynamic Range:
 - <1 – 300 ppb typical for PTSA
 - <1 – 100 ppb typical for fluorescein
 - 0.03 - 100 ppb typical for chlorophyll
- Sensitivity: <1 ppb typical for chlorophyll, fluorescein, rhodamine, PTSA and other fluorescent dyes (Sensitivity dependant on fluorescence intensity of fluorophore)
- Solid state fluorometer uses LED/ photodiode technology, no moving parts
- Customizable optics (365 – 1100 nm)

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.

Contact Us

Toll-Free : 1.877.316.8049

Phone : 408.749.0994

Fax : 408.749.0998

Email : sales@turnerdesigns.com

Web : www.turnerdesigns.com

Address:

845 West Maude Avenue

Sunnyvale, CA 94085

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