

PTSA or Fluorescein Transmitters



Little Dipper™ 2 In-line Fluorometer

Turner Designs' Little Dipper 2 is an accurate, single channel, light industrial fluorometer which installs directly into process streams. It provides an analog signal output proportional to the concentration of the fluorophore being measured. The Little Dipper 2 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 such as the WebMasterONE to monitor and control the level of treatment chemicals for cooling tower and boiler applications.



Summary of Key Benefits

- Simple calibration with the WebMasterONE
- Simple installation - now with built-in isolator
- Provides better control of treatment chemicals
- Solid-state LED/Photodiode technology, no moving parts
- Typical sensitivity to less than 1 ppb
- Quick-disconnect watertight connector
- Improved turbidity and dissolved iron rejection

SPECIFICATIONS

Fluorometer

Parameter	Specification
Range	1-300 ppb PTSA 1-100 ppb Fluorescein
Linearity (over dynamic range)	0.99 r2
Power draw	0.8 W @ 12 VDC (1.0 W max)
Input voltage	8 to 30 VDC
Signal output	4-20 mA
Light source	Light emitting diode
Detector	Photodiode
Warm-up time	5 seconds
Length	8.63 inches (21.9 cm)
Diameter (housing)	1.3 inches (3.3 cm)
Diameter (max)	1.72 inches (4.4 cm)
Weight	4.4 oz (125 g)
Material	PVC- Type I, molded plastic

Mounting Tee

Parameter	Specification	
	1"	3/4"
Materials	PVC - Type I, molded plastic, FKM O-ring	Glass-filled Polypropylene, FKM O-ring
Threading	1" NPTF	3/4" NPTF
Length	3.3 inches (8.4 cm)	
Dynamic pressure rating	100 PSI (6.9 bar)	
Temperature rating	122°F (50°C)	

ORDER INFORMATION

103963	Little Dipper 2, PTSA, 1' Tee
103964	Little Dipper 2, Fluorescein, 1' Tee
191723	Little Dipper 2, PTSA, 3/4' Tee
191724	Little Dipper 2, Fluorescein, 3/4' Tee
103967	Little Dipper 2, PTSA, No Tee
103968	Little Dipper 2, Fluorescein, No Tee
191721	Calibration Tee, Little Dipper 2
103773	Calibration standard, PTSA



WALCHEM

IWAKI America Inc.

Handheld Fluorometer



Handheld Little Dipper Fluorometer

The Handheld Little Dipper is a small, lightweight, highly durable handheld fluorometer ideal for quick measurements in the field. Two versions are available for both cooling tower and boiler system applications. Simple to operate, the Handheld Little Dipper is a perfect tool for system verification.

Summary of Key Benefits

- Dustproof, watertight, highly durable case
- Small size easily fits in shirt or jacket pocket
- Operates using AA batteries for >10,000 measurements per set
- Single-point (100 ppb) calibration
- 5 second warm up
- Low maintenance field fluorometer



SPECIFICATIONS

Parameter	Specification
Linear Range	0-200 ppb typical for fluorescein 0-200 ppb typical for PTSA
Sensitivity	1ppb typical for fluorescein and PTSA
Temperature	41 - 104°F (5 - 40°C)
Warm-up time	5 seconds
Case	IP67 standard: dustproof/waterproof
Power	2 AA batteries
Light source	LED
Detector	Photodiode
Weight	4.3 oz (120 kg)
Size	8.9"x 2.0"x 1.75" (22.6 cm x 5.1 cm x 4.5 cm)

ORDER INFORMATION

103965 Handheld, PTSA
103966 Handheld, Fluorescein



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