Advantage Controls — Data Sheet

Little Dipper 2

Fluorometer by Turner Designs

PTSA Trace Chemical Control

Key Features

- Accurate In-Line Measurement
- Compact Design
- Quick Release Tee
- Solid State Design
- Simple 4-20mA Output
- Easy Connection to MegaTron Controllers

Application

The Turner Designs Little Dipper 2 in-line fluorometer is a compact sensor designed for monitoring and control of fluorescent dyes in industrial water systems with a single 4-20mA analog output.

Advantage Controls' makes integration simple and convenient with our pre-fab options and no requirement for an external power supply and mA output isolator.

MegaTron and MegaTron XS controllers with a 4-20mA input can power the Little Dipper 2 and provide accurate relay control with standard set point, high/low alarm, feed limit timer and daily max feed for proportional chemical concentration control. Add optional web communications for maximum customer satisfaction and performance.

Build a LD2 Model Number

LD2820 ____ - ____ ____

Optics
- **A** = PTSA optics
- **F** = Fluorescein optics

Wiring
- **1** = Standard 30” quick release cable with stripped ends
- **2** = 30” quick release cable pre-wired to separately order Advantage controller
- **3** = 72” quick release cable pre-wiring to separately order Advantage controller

Pre-Fab
- **X** = Probe and tee not installed
- **Y** = Probe and tee pre-installed in controller or pre-fab plumbing (must have Advantage controller or pre-fab ordered as separate line item on same order)
- **Z** = Probe and tee pre-installed like option Y plus plug for tee

Specifications

Dynamic Range:	<1 to 200 ppb typical for PTSA	Weight:	4.4 ounces (125g)
Sensitivity:	< 1 ppb typical	Length:	8.63” (21.9 cm)
Power Draw:	0.80 W @ 12 VDC (1.0 W max)	Material:	PVC - Type I
Input Voltage:	8-30 VDC	Warm Up Time:	5 seconds
Signal Output:	4-20 mA	Temperature:	0-50°C
Pressure:	0-100 PSI	Mounting Tee:	1” FNPT PVC

Handheld Testers

LD2-CHECK-A	Hand held LD2 fluorometer with PTSA optics
LD2-CHECK-F	Hand held LD2 fluorometer with Fluorescein optics
OPTI-CHECK-2	Dual channel PTSA & Fluorescein Opti-Check tester

Parts

LD2-2820-505	Calibration cable and power supply
LD2-2820-510	Replacement tee and nut (1” FNPT)
LD2-021-2800	Replacement cable, 4-20mA; 36” (30” usable)
LD2-CABLE-72	Replacement cable, 4-20mA; 72” (66” usable)
LD2-CAL-T	Calibration tee with 1” FNPT plugs
LD2-PLUG	Plug for LD2 tee
LD2-RPK	Plumbing Kit to replace original tee (tee not included)
LD2-TMP	LD2 tee and plug installed in separately ordered pre-fab
PTSA-100	100 ppb PTSA test solution, 1 liter
FLUOR-100	100 ppb Fluorescein test solution, 1 liter

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01/2015