



LIGHTHOUSE
WORLDWIDE SOLUTIONS
Technology That Counts!



Neptune TOC

For Pharmaceutical and Life Sciences

Online Total Organic Carbon Analyzer

The Lighthouse **TOC Analyzer** redefines Total Organic Carbon monitoring using Lighthouse's patent pending UVx Lamp design that delivers a lower cost of ownership and longer operational life than was previously available.

The UVx lamp technology provides TOC Analysis using no chemicals or catalyst and provides a more repeatable and accurate measurement.

The compact design offers savings by extending the operational life of the UV lamp to up to two years of continuous usage by minimizing the need for frequent lamp replacements.

The Lighthouse Neptune **TOC Analyzer** is ideal for High Purity Water Applications in the pharmaceutical industry.

The Lighthouse Neptune **TOC Analyzer's** multiple communication interfaces include Ethernet, RS-485 and four Analog Outputs, which make it easy to integrate into any facility monitoring or control system.

The Lighthouse Neptune TOC can record data as a stand-alone unit or as part of a Data Acquisition System.

**Designed and built by
Lighthouse - a name you can trust.**

Lighthouse is an ISO 9001:2008 Registered Company

www.golighthouse.com

Features and Benefits:

- ★ Patent Pending UVx Reactor System
- ★ 1.0 ppb Level Of Detection
- ★ Multiple Alarm Outputs
- ★ Easy To Use Touchscreen Color LCD Interface
- ★ Built-in Flow Meter
- ★ Low Maintenance UVx Lamp (2 Yr. Lifespan)
- ★ LWS UV Reactor Design Reduces Oxidation Time and Improves Precision
- ★ Easily integrates with Lighthouse Monitoring systems

Applications:

- ★ Ultra Pure Water
- ★ Water for Injections
- ★ Water Purification Systems



Specifications:

Measurement Range:	1.0 to 1000 ppb TOC
Flow Rate:	100 mL/min nominal
Communication Modes:	Ethernet (MODBUS/TCP), RS-485 (MODBUS ASCII), 4 channel 4-20mA
Data Storage:	1000 Records
LED Indicators:	Power / Status
Power:	24VDC 1.5A (36W)
Relay Outputs:	4
Conductivity Range:	0.05 to 2.0 μ S/cm
Resistivity Range:	0.5 to 18.24 M Ω /cm
Display Resolution:	1.0 ppb (TOC) 0.1 $^{\circ}$ C (Temperature) 0.001 μ S-cm (Conductivity) 0.01 M Ω /cm (Resistivity)
Enclosure:	Stainless Steel and Aluminum
Sample Inlet/Outlet Connection:	1/4" Compression
Sample Temperature:	41 - 122 $^{\circ}$ F (5 $^{\circ}$ C - 50 $^{\circ}$ C)
Sample Pressure:	100 PSI MAX
Dimensions:	7.2" (h) x 8" (w) x 8.25" (d) [18.29 x 20.32 x 20.96 cm]
Weight:	7.22 lbs (0.21 kg)

Environmental Conditions:

Operating:	41 $^{\circ}$ F to 113 $^{\circ}$ F (5 $^{\circ}$ C to 45 $^{\circ}$ C) / 0% to 95% non-condensing
Storage:	14 $^{\circ}$ F to 122 $^{\circ}$ F (-10 $^{\circ}$ C to 50 $^{\circ}$ C) / Up to 98% non-condensing

Accessories:

Included:	Operating Manual on CD; 10' 1/4" Sample Tubing; Power Supply; Cable; 4 each Nut/Ferrule kit; USB to RJ-45 Serial cable, RS485; <i>LMS Express</i> Software
Optional:	Printed Operating Manual; Additional Tubing; Liquid Cooling Module; <i>LMS Express RT</i> Software; <i>LMS Express Pharma</i> Software

Manufactured by:

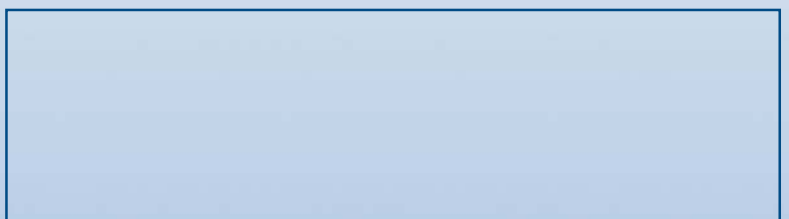


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Distributed by:



Lighthouse Worldwide Solutions reserves the right to change specifications without notice.

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