AEGIS Smart Sensor System

Alongside the US Navy, our team at Lucent Water has developed a direct-line insertion smart chlorine sensor system for the most challenging waters on the planet, now available for all commercial applications. The AEGIS Smart Sensor System is a self-cleaning, chemical-free, and membrane-free multi-parameter sensor measuring 5+ parameters in just a single probe. It is NSF-61 Certified and EPA Method 334.0 compliant for municipal drinking water with options to measure oxidants including free chlorine, bromine, total chlorine, chlorine dioxide, monochloramine, and ozone.

Applications

Industrial

- Drinking Water
- Wastewater
- HVAC Systems
- Cooling Towers
- Offshore Oil/Gas
- Aquariums
- Swimming Pools

Marine

- Ballast Water Treatment
- Cooling Water
- Fire Mains
- Aquaculture
- Desalination

Key Features

➤ **Multi-Parameter:** Monitors 5+ parameters including your chosen oxidant, conductivity, temperature, pH, and ORP. Application-adaptable with an adjustable signal output range.

➤ **Maintenance-Free:** Requires no chemicals or membranes to replace, reducing costs and saving time.

➤ **Self-Cleaning:** Uses mechanical and electrochemical processes to keep bare electrodes clean and functioning, eliminating time spent on cleaning.

➤ **Multi-Oxidant Detection:** Measures a variety of oxidants including free chlorine, total chlorine, chlorine dioxide, monochloramine, bromine, and ozone.

➤ **In-Line Installation:** Installs directly into your water line or source; no sample line or waste stream necessary. Cuts costs and saves thousands of gallons of water yearly.

➤ **Flexible Communication:** Convenient monitoring and control from mobile phone or PC with Wi-Fi. Seamless data transfer and integration with monitoring systems through modern IoT protocols. 7" touchscreen LCD display stores data for 2 years.

➤ **Micro-Wire Working Electrode:** Ultra-low limits of detection.

AEGIS SENSOR SYSTEM
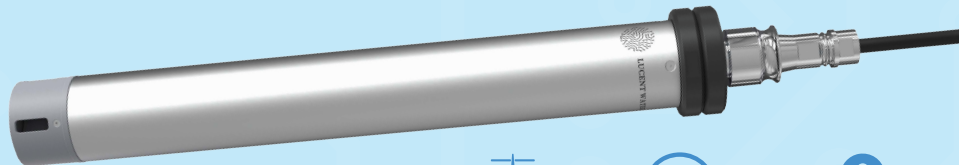
LUCENT WATER

platinum
REGISTRATION
ISO 9001:2015
Certified

ALS
NSF-61
Certified

EPA 334.0
Compliant
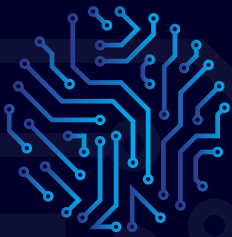
AEGIS

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AEGIS Smart Sensor System Specifications

Sensor

Range	0 to 15 mg/L (TRO)
Resolution	± 0.01 mg/L
Repeatability	± 10% overall or ± 0.05 mg/L minimum
Operating Range	0 to 50 °C (32 to 122 °F)
Operational Life	2+ years
Cycle Time	User selectable: 110 sec or optional 60 sec
Method	Amperometric
Pipe Penetration	2" diameter & minimum 2" Insertion depth
Pipe Adapter	Male NPT "Locknut-Style" Adapter Provided
Temperature Resolution	0.1 °C/°F
Temperature Accuracy	± 0.5 °C (± 1 °F)

In-line Installation
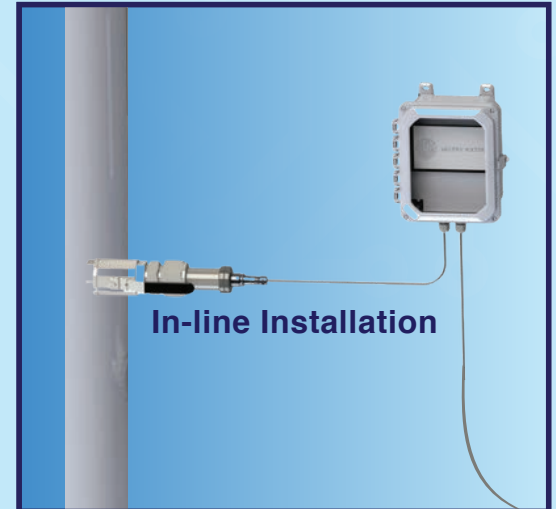
Display

Input Power	12 to 35 Vdc, 8 Wpp
Local Display	7" Touchscreen LCD
Operating Temperature Range	0 to 50 °C (32 to 122 °F)
Isolated Output	4x 4-20mA channels, 0-24Vp range
Units of Measure (Main Probe)	TRO (ppm), Temperature (°C°F), Conductivity (uS/cm), ORP (mV)
External Probe Options	ORP, pH, Conductivity, Turbidity, and more!
Operating Humidity	0 to 95% non-condensing
Enclosure Rating	Polycarbonate NEMA 4X, IP65
Optional Communication	MODBUS TCP/IP / 802.11 Wireless

9"

11.25"

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15.5"

2"
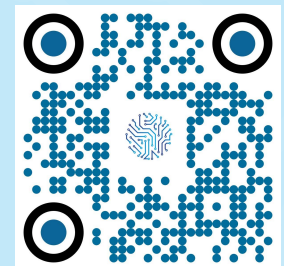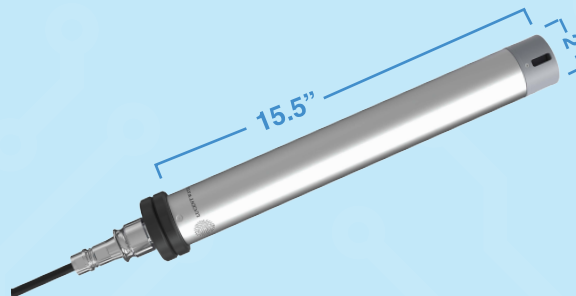
Scan for more information!