Pyxis®

Monitoring Solutions for **Data Center Cooling.**

Pyxis Lab, Inc. specializes in developing advanced inline and handheld monitoring technologies across various industries, including critical coolant distribution systems in data centers.

INLINE SENSORS | PANEL SOLUTIONS

OVERVIEW

Critical cooling fluid measurements are essential for ensuring the efficient and reliable operation of (AI and General) servers in data centers. These measures help monitor and control the cooling system, preventing overheating and maintaining optimal performance.

Industry guidelines (i.e. ASHRAE and others) for fluid quality in critical cooling systems for AI data centers emphasize maintaining optimal fluid chemistry to ensure long-term reliability and efficiency.

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Pyxis Lab, Inc.

SMART SENSOR INNOVATION

Pyxis Lab, Inc. specializes in developing and producing advanced water monitoring technologies. The company is a leading manufacturer of specialized 'smart' inline sensors, handheld analytical devices, and fluorescent tracing chemicals used across various industries and markets to include critical coolant distribution systems to servers. Our technology focuses on improving water/fluid treatment operations by offering expanded detection ranges, lower detection limits, and user-friendly interfaces capable of direct communication from sensor to Network or PLC via integrated 4-20mA and RS-485 protocol. With global headquarters near Houston, Texas, and additional offices in Spain and China, Pyxis Lab, Inc. serves over 25,000 installations worldwide, providing robust solutions for smart fluid management, chemical dosing and process control.

The inline smart sensor platforms offered by Pyxis Lab Inc. are ideal for utilization in water and coolant fluid quality monitoring of critical equipment in all segments of the CDU. All Pyxis sensors are 24V DC powered with an average of <1.5W demand have fully integrated transmitters within the sensor body/PCB itself, eliminating the need for any external displays, data loggers or transmitters. This makes the Pyxis line ideal for ease of integration with direct analog and digital (RTU) communication to the site DCS or PLC.

Sensor	P/N	Measured Analyte	Measurement	Material	Install Format
CR-300	51007	LPR Corrosion Rate	General MPY/Pit Index	304 Stainless Steel	ST-009 ¾ inch NPT
ST-710SS	53030	pH	0–14	304 Stainless Steel	ST-009 ¾ inch NPT
ST-711SS	53031	ORP	±1,500mV	304 Stainless Steel	ST-009 ¾ inch NPT
ST-712SS	53032	pH + ORP	0–14 / ±1,500mV	304 Stainless Steel	ST-009 ¾ inch NPT
ST-720SS	58761	Conductivity + Temp.	1–100,000µS/cm	316L Stainless Steel	ST-009 ¾ inch NPT
ST-724	10009	Conductivity + Temp.	0.02–1,000µS/cm	316L Stainless Steel	ST-009 ¾ inch NPT
ST-725	53108	Conductivity + Temp.	0.02–200.0µS/cm	316L Stainless Steel	ST-009 ¾ inch NPT
ST-728	53117	Conductivity + Temp.	0.02–10µS/cm	316L Stainless Steel	ST-009 ¾ inch NPT
ST-500SS-T	50661	PTSA Tracer Product	0–300ppb	316L Stainless Steel	ST-009 ¾ inch NPT
ST-587SS-T	54386	PTSA + Turbidity	0–300ppb + 0–200NTU	316L Stainless Steel	ST-009 ¾ inch NPT
ST-588SS-T	53146	PTSA + Tagged Polymer	0–300ppb + 0–20ppm	316L Stainless Steel	ST-009 ¾ inch NPT
ST-565T-SS	Pending†	Tolytriazole Inhibitor	0.00–10.00ppm	304 Stainless Steel	ST-009 ¾ inch NPT
ST-730SS-T	56377	Turbidity	0.0–100.0NTU	316L Stainless Steel	ST-009 ¾ inch NPT
ST-730BSS-T	51119	Turbidity	0–1,000NTU	316L Stainless Steel	ST-009 ¾ inch NPT
ST-731SS-T	55995	Turbidity	0.00–10.00NTU	316L Stainless Steel	ST-009 ¾ inch NPT
ST-772T	53719	Dissolved Oxygen + Temp.	0.0–20.0ppm	304 Stainless Steel	ST-009 ¾ inch NPT
RT-100	55105	Ethylene/Propylene Glycol	0.00–100.00%	316L Stainless Steel	Flow Cell ¾ inch NPT
IK-765SS-BP	41771	Free Chlorine + pH + ORP	0–5ppm / 0–14 / ±1,500mV	Multiple Materials	Full Panel Solution
IK-1500	41179	pH + ORP + Conductivity + Turbidity + Glycol	0–14 / ±1,500mV / 0–1,000µS/cm / 0.0–100.0NTU / 0.00–100.00%	304 Stainless Steel 316L Stainless Steel	Full Panel Solution

†Part Number Pending Assignment

IK-1500

Panelized Solution for **Cooling Monitoring.**

The IK-1500 combines multiple sensors to create a pre-panelized solution perfect for monitoring fluids in critical cooling systems for data centers. The sensors included in the design are as follows:

- ST-712SS pH + ORP Sensor
- ST-725 Ultra-Low Conductivity Sensor
- ST-730SS-T Turbidity Sensor
- RT-100 Refractometer (Mono-Ethylene/Propylene Glycol)

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