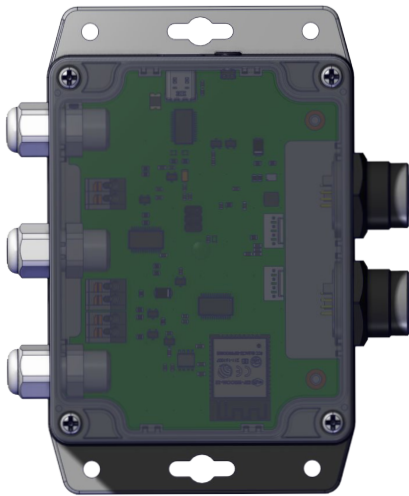
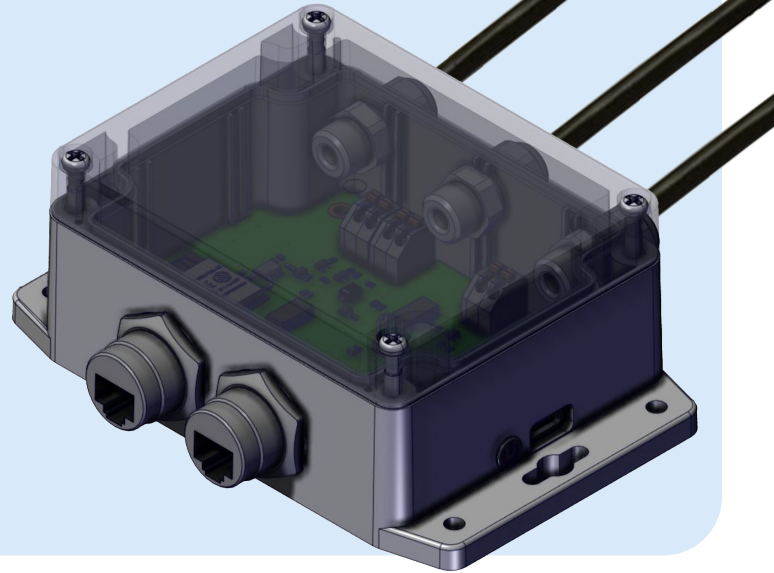


TDS Sensor

Real-time TDS (Total Dissolved Solids) detection for optimized water quality and system efficiency.



The Peregrine TDS Sensor offers reliable and accurate measurement of Total Dissolved Solids (TDS) in real-time, making it an essential diagnostic tool for water quality control in residential and commercial systems. Featuring a 1/4" NPT slip fitting, this sensor integrates easily into a variety of plumbing setups and provides critical insights into water purity across RO systems, aquariums, hydroponics, and more.

With a detection range from 0 to 1000 ppm and $\pm 5\%$ accuracy (based on calibration), the Peregrine TSD Sensor ensures that you can continuously monitor and respond to changes in water quality before they impact performance or cause damage. Future-ready with support for multiple probe ports—pre, post, and remineralization—the Peregrine TSD Sensor can adapt to growing system needs. Built with durable materials, it's tough enough for industrial use while still simple enough for residential applications.

BASIC

- Stainless Steel Electrodes
- Affordable with decent durability
- May corrode over time when exposed to chlorides

UPGRADE

- Platinum Electrodes
- Excellent corrosion resistance
- Ideal for use in saltwater and brine applications

FEATURES

Real-Time TDS Monitoring

Provides immediate, accurate readings to help maintain optimal water quality.

Versatile Slip Fitting

Features a 1/4" NPT slip fitting compatible with a wide range of water systems.

Multi-Probe Capability

Designed to accommodate pre, post, and remineralization TDS readings in future models.

CAN Bus Communication

Supports system-wide integration and smart monitoring through CAN Bus protocol.

Rugged, Waterproof Design

IP67-rated to endure harsh environmental conditions without compromising performance.

Simple Integration

Push-in style connectors and Peregrine interface compatibility for hassle-free setup.

Valuable System Insights

Helps detect issues early, improving troubleshooting, maintenance, and long-term system health.

SPECIFICATIONS

Operating Voltage	USB-C Adapter: 5V DC CAN Bus: Standard 125 kbps
Power Requirement	Minimum 5 W (5V 1A)
Wireless Connectivity	ESP32 Wi-Fi b/g/n capable (20 dBm) Line of Sight: Indoors: 164–328 ft. (50–100m) Outdoors: 3–6 mi. (5–10km)
Frequency Range	2.4 GHz
Sensor Quantity	3 TDS probes
Sensor Reading Range	0–1000 ppm
Accuracy	Depends on calibration
Cable Length	Maximum: 2 ft. (0.6m)
Ingress Protection Rating	IP67
Installation	• Sensors use 1/4" NPT slip fitting • Sensor cables are inserted into push-in style connectors for desired length
Special Features	• CAN Bus communication with other devices

