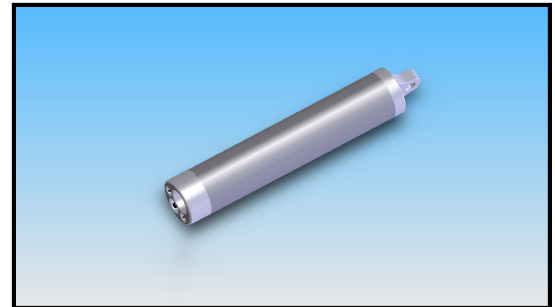
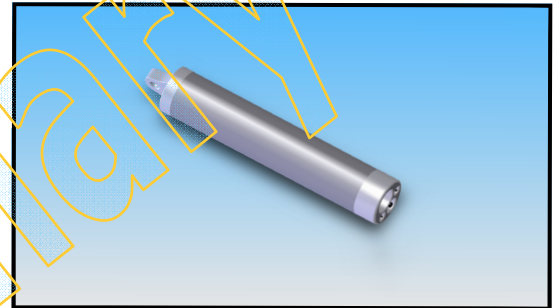


Fresno

Rechargeable Underwater Data Loggers with Wireless Data Transfer

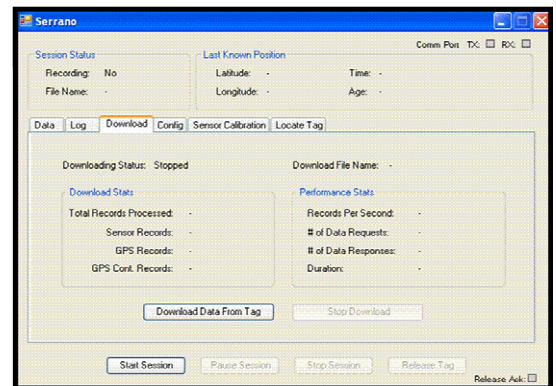
The Fresno line of data loggers are specifically designed for demanding environmental and industrial applications. Fresno is a compact waterproof temperature or temperature and pressure recorder. Fresno is deployed to fill various scientific data collection requirements such as in streams, lakes and oceanographic applications as well as industrial applications such as drinking water supply, waste water monitoring and perishable food, drug and medical supply transportation and storage. Fresno loggers are available in delrin acetal and titanium housings. Each Fresno logger is calibrated to exacting standards and is fully tested for reliable measurement. All Fresno loggers make use of a rechargeable Lithium-Ion battery meaning no need for battery replacement over it's lifetime. The Fresno series of loggers also make use of a Xeos wireless protocol and USB technology for fast and reliable initialization and downloading of collected data.



Features

- High speed wireless download with USB data transfer
- Rechargeable Lithium Ion battery technology
- One year between recharging at 1 sample every 10 seconds
- 10 year total battery lifetime
- 2 MB internal flash memory
- Over 1,000,000 samples recorded
- 16 bit analog to digital measurement
- Titanium housing for ocean depth applications
- Windows XP™ PC console for easy set up and display
- Automatically exports data to an EXCEL™ spreadsheet
- Quick response temperature and pressure sensors
- Through-hole for quick attachment
- Completely programmable
- Corrosion resistant housing materials
- High quality piezoresistive pressure transducer sensors

Renderings of Fresno TR-P (Titanium)



Fresno PC Software Console



XEOS
Technologies Inc.

Data Telemetry Specialists

2 Bluewater Rd.
Bedford, Nova Scotia
Canada
B4B 1G7
Phone: (902) 444-7650
Fax: (902) 444-7651
Contact: Paul Hill
Email: paul@xeostech.com

Specifications

- Temperature Measurement Range: -40° to 60°C in water; -50° to 70°C in air
- Temperature Accuracy: $\pm 0.1^\circ\text{C}$ at 0 to 50°C
- Temperature Resolution: 0.02°C at 25°C
- Pressure Measurement Range: 10 m to 2000 m
- Pressure Accuracy: $\pm 1\text{m}$ at 100m
- Pressure Resolution: $\pm 0.5\text{m}$ at 100m
- Waterproof: 120 m (Plastic Case); 2000 m (Titanium Case)
- Time accuracy: ± 60 seconds per year
- Memory Capacity: 2MB; Approximately 1,000,000 12-bit Measurements
- Memory Type: Non-volatile Flash
- Data Retention: 20 years
- A to D: 16-bit
- Response Time: 5 minutes in water, 10 minutes in air moving 2 m/sec, typical to 90%
- Memory modes: Stop when full
- Data offload: Wireless transfer full logger in < 20 seconds while logging or when stopped
- Battery Type: One 3.6 V Lithium Ion Rechargeable
- Battery Life Recharge Interval: 1 year at 1 sample every 10 seconds
- Total Battery Life: 10 years
- Drop proof to 3m
- Size/weight: 11.4 x 3.0 cm with 6.4 mm hole in mounting bail; 42 g (Plastic) 75 g (Titanium)
- Initialization Indication: LED flash

Accessories



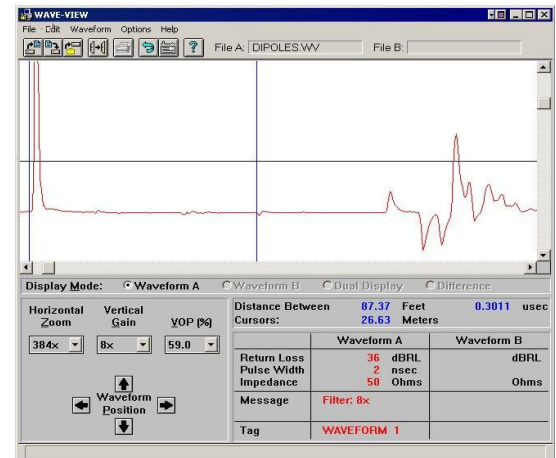
USB Wireless Reader and Recharging Station



Carrying Case for 10 Loggers and Recharging Station

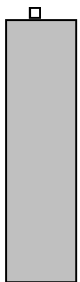
Depth Rating	Resolution	Accuracy
10 m	0.1 m	± 0.5 m
50 m	0.2 m	± 1.0 m
100 m	0.3 m	± 2.0 m
250 m	1.0 m	± 3.0 m
500 m	2.0 m	± 6.0 m
1000 m	4.0 m	± 8.0 m
1500 m	6.0 m	± 10.0 m
2000 m	8.0 m	± 12.0 m

Pressure Sensor Range Chart

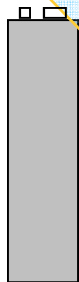


Fresno Graphical Interface

Models



Fresno TR-P



Fresno TDR-P



Fresno TR-T



Fresno TDR-T



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