

T-Chain

Monitor Temperature, Dissolved Oxygen, Pressure and Par.

The T-Chain is used as a water quality monitoring and lake management device that collects water column temperature, dissolved oxygen, PAR and pressure measurements. T-Chains are currently being used to monitor lake and reservoir thermocline and stratification, detect dissolved oxygen fluctuations, observe internal waves, collect data under ice, discover plumes, observe upwelling and eddies, record lake turnover and more. The T-Chain is also used in marine environments.

The T-Chain can be supplied a RS 232 connection to be used with a Campbell data logger.



Applications

- Monitor water column temperature
- Monitor dissolved oxygen content
- Detect Plumes and internal waves
- Data on Fall and Spring turnover
- Look at Upwelling and Eddies
- Validate models and Lake Number
- Look at Vertical Eddy Diffusivity

Sensor Specifications

Temperature Accuracy	+/- 0.010° C
Thermal Range	0 - 36° C
Dissolved Oxygen	Optical, 8µM or 5%
PAR	LI-192SA
Pressure Transducer	5, 10, 20 bar

T-Chain Specifications

Max. Data Rate	1 scan of all nodes/ sec.
Sensor Time Constant	better than 2 seconds
Resolution	16 bit, approx. 0.005° C
Max. span between nodes	30m
Min. span between nodes	25cm
Maximum depth of a node	165m
Outputs	RS232/ RS485

Logger

PME can supply a T-Chain to be connected to a Campbell Scientific Data Logger. Compatible data loggers include the CR800-Series, CR1000, and CR3000.

