

## T-Chain Guidelines and Design Rules

Customer Requirements will vary. Some guidelines are listed below.

### Guidelines

- The T-Chain is not intended to be tension bearing. It is intended that this chain be attached via cable ties to a tensioned member such as a cable. Plastic rope can also be used, but the rope must not stretch under tension to the point where the attached temperature chain is loaded. The T-Chain should be attached by cable ties located a few inches from each node.
- A simple deployment is to attach a surface buoy via a short length of cable or rope to the top of the birdcage. Then attach a cable or rope to the other side of the birdcage with sufficient length to reach the weight on the bottom. The temperature chain is then attached to the cable. In this configuration, tension passes through the birdcage, which will support a light tension.
- If large tension is desired, then the same arrangement can be used except that the birdcage should be attached parallel to the cable at both its top and bottom points. Care should be taken to attach the birdcage in a way that allows 3<sup>rd</sup> party snagged lines to be pulled along the chain to the surface.
- The upper end of the temperature chain should be secured to the birdcage with cable ties so that it does not rub or flex in response to currents or wave motions.
- The deployment method must recognize that the logger must be accessed to refresh batteries and obtain measurements.

### Design Rules

Maximum Depth of a Sensor	165 meters
Maximum Span between Sensors	30 meters
Minimum Span Between Sensors	25 centimeters
Number of Sensors	No Limit