

Intelligent Winch for Vertical Profiling

The intelligent winch can be used to precisely position attached sensors and to continuously pass along their real-time data stream. Designed to be a component of a complete vertical profiling system, the winch will provide an interface to its internal computer that will accept commands instructing the system to move the sensors to a particular position and at what speed. Position can be specified by number of winch drum revolutions from a known home position (in very small increments). Additionally, if external position feedback is provided to the system (for example depth in water from an external transducer) position can be specified in the units of the external feedback. The system can be protected from malfunction by monitoring the cable tension and/or limit switches via additional optional inputs.



- ◆ 12 or 24 Volt operation
- ◆ Ethernet connectivity with control, output and position feedback ports
- ◆ Direct cabled instrument access for data and power via slip-ring
- ◆ Limit switch inputs
- ◆ Optional cable tension monitoring will stop winch if tension out of range
- ◆ Manual control and emergency stop

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