



TAUT WIRE LIGHTWEIGHT TAUT WIRE DP REFERENCE SENSOR

Designed for use as a deck mounted DP reference System on vessels of opportunity or as a permanent installation, the SMT TW-1.0 system gives very accurate measurements of a vessel's movement referenced against the position of a 460kg depressor weight on the seabed. A constant tension, heave compensated electric driven winch positions the depressor weight on the seabed, using a full vector controlled variable speed drive for precise adjustments. Small vessel movements in all axis are measured by a gimbal head sensor and updated measurements are sent to the DP system via a programmable automation controller. A compact footprint, mobilisation ready design and multi interface outputs means the TW-1.0 system is the Taut wire system of choice.



KEY FEATURES

- Compact & Lightweight Design (lower transport costs).
- Fits inside a standard ISO shipping container.
- Quick and easy mobilization.
- Local and bridge control stations as standard (9" wide aspect full colour touch HMIs).
- Standard 300m Water Depth range (500m cable installed on drum). Optional 500m Water Depth range (700m cable installed on drum).
- Integrated control panel.
- No air requirements.
- Fail safe electric safety brake.
- Both direct and converted angles can be used.
- Multi interface output options available including:
 - Analogue/digital (4-20mA +10/-10V, 0-10V)
 - Serial string NMEA (RS232, RS422 or 485)
 - Ethernet
 - Customised NMEA string

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Dimensions:

Footprint:	2.2 x 1.55m
Stored height:	2.3m
Max height while deploying:	2.8m
Overboard reach:	3m
Approx. weight:	2300Kg

Electrical Requirements:

Main Supply: 400-460 VAC 3-phase 50/60Hz
45Amp feeder
Approx. 13.5kW load

Aux Control Supply (UPS): 200-240 VAC
single phase 50/60Hz
feed 300W

Options:

Multiple spare parts packages
Climate pack
Maintenance care cover
Extended warranty (up to 5 Years)

Environmental:

Temperature
Deck equipment
Storage: -25 to +70° C
Operational: -10 to +50° C
(with optional Climate pack -20 to +65° C)

Bridge equipment
Storage: -25 to +70° C
Operational: 0 to +50° C

Ambient humidity operational: 0 to 100% non-condensing
Relative humidity storage: 0 to 100% non-condensing

Ingress Protection
Deck equipment: IP56
Bridge equipment: IP55

Acoustic Noise
Mooring: less than 60 dBA at 1 meter distance

Heave/Lower: less than 80 dBA at 1 meter distance