

TAUT WIRE – F RANGE

FIXED BOOM TAUT WIRE DP REFERENCE SENSOR

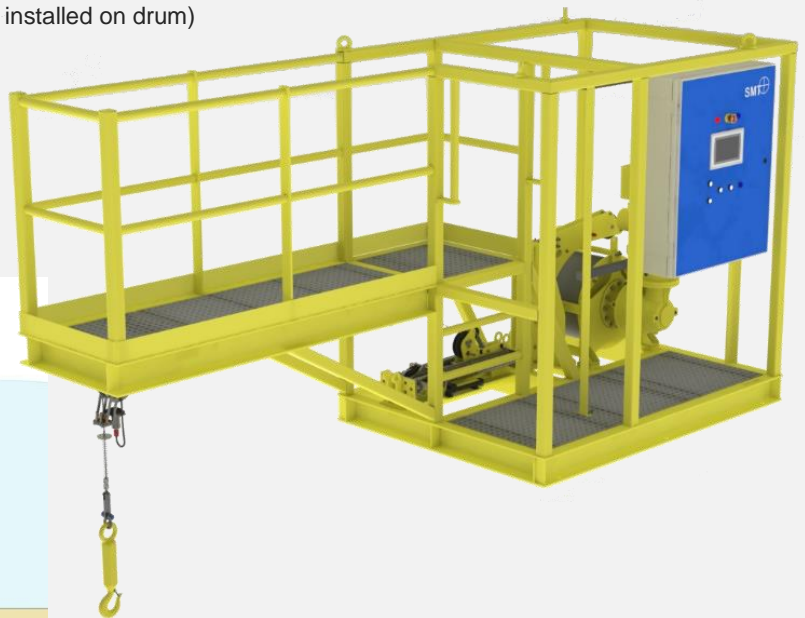
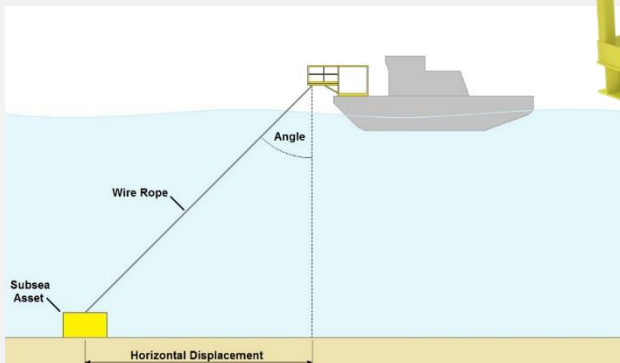
Description

Fixed TAUT WIRE POSITION REFERENCE SENSOR

The F Type TW-1.0 fixed frame Taut Wire is a survey position reference system sensor; which is designed for use as a deck-mounted sensor on surface vessels. The purpose of the unit is to provide accurate data of a surface vessel's positions with respect to the position of the attached equipment on the sea bed. A 4.9mm wire is maintained at a constant tension of 300 - 400Kg this is achieved using an electrically driven winch operating in a heave compensation configuration. The movements of the gimbal head sensor and wire length is updated via the programmable automation controller and sent to the survey system using a RS-422/RS-485 serial string. The system has an option to add a time stamp from the vessel GSRP RS422 or RS485 to ensure the most up to date information is used. The position of the object relative to the system is calculated by the survey package allowing an accurate position of the object or asset to be ascertained.

Features

- Compact & Lightweight Design (low transport costs)
- Quick and easy mobilization
- Proven technology
- Local control station as standard (6" wide aspect full colour touch HMI)
- Standard operational 300m Water Depth (500m cable installed on drum)
- Integrated control panel
- Angle of gimbal head max 60 deg in all directions
- System Output RS 485 / RS422 Serial string
- String Format: X Angle, Y Angle, Z Length NMEA
- Compatible with UTEC survey package



System Specification

| Dimensions | | Electrical Requirements | |
|---------------------|----------------------------|-------------------------|---|
| Footprint Height | W2000 x L3500mm 1500mm) | Main supply | 400-460 VAC 3-phase 50/60 Hz 45A feeder Approx. 13.5kW load |

| Environmental | |
|------------------------------|--------------------------|
| Temperature Deck Equipment | |
| • Storage | -25 to +70° C |
| • Operational | -25 to +50° C – no ice* |
| Ambient Humidity Operational | 0 to 100% non-condensing |
| Relative Humidity Storage | 0 to 100% non-condensing |
| Ingress Protection | |
| • Deck equipment | IP56 |
| Acoustic Noise | |
| • Mooring | Less than 60 dBA at 1m |
| • Heave / Lower | Less than 80 dBA at 1m |

Table of Accuracy - Water Depths and Angles available on request

