

## TSS 350 Cable Tracker

- Cable location data
- Depth of burial data
- Cable fault location
- Vehicle skew angle data
- Look ahead information
- Tone discrimination



With modern subsea cable systems becoming increasingly sophisticated and their deployment, recovery and repair a more exacting science, there is a need for accurate subsea cable location. The TSS 350 Cable Survey System has been developed to meet this requirement in a compact, modular system that provides advanced features whilst remaining easy to use.

The TSS 350 System is designed specifically for the detection and survey of tone-carrying cables. Featuring a comprehensive software display and menu structure, realtime information is presented in a clearer graphical format and provided as a digital output for storage and subsequent processing.

This fully integrated system provides accurate survey data, verifying location and burial status of a cable as well as providing operators with fault location, vehicle skew angle and look-ahead information. Designed to be installed onto a wide range of subsea vehicles, the System can detect tones on a telecommunications or power cable, or an umbilical.

The TSS 350 provides today's specialist operating companies with a System that will significantly improve their subsea operations allowing cable detection at greater burial depths for a variety of applications.

- Good detection range
- Accurate and reliable survey data with Quality Control envelope
- Combination of advanced DSP technology and proven tone-detection techniques
- Tone frequency discrimination Benefits



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| <b>System Performance</b><br>(Dependent on tone. Stated performance is based on 25Hz tone at 10mA current) | <b>Vertical Measurement Accuracy</b>                           | 5cm or 5% of slant range – whichever is greater. Stated accuracy applies within an envelope approximately 4.2m wide and 4.0m deep. |
|  | <b>Maximum Detection Range</b>                                 | Cable detected at vertical range up to 10m and within a total horizontal swath width of 20m centered on the coil array.            |
| <b>Subsea Electronics Pod (SEP)</b>  | <b>Dimensions</b>  | 140mmØ x 460mm   |
|  | <b>Weight</b>  | In air: 10kg, In water: 2kg  |
|  | <b>SDC Communication</b>                                       | 2-wire 20mA digital current loop or 4-wire 20mA digital current loop, RS232 or RS422 via multiplexer                               |
|  | <b>Voltage input</b>   | 110V a.c. (input range 98-135V a.c.)<br>Option: 240V a.c. (input range 198-270V a.c.)  |
|  | <b>ROV Connection</b>  | Via 8-way waterproof connector   |
| <b>Sensor Coils</b>  | <b>Dimensions</b>  | 68mmØ x 340mm (6-off required – 2 arrays)  |
|  | <b>Weight</b>  | In air: 3.5kg each. In water: 2.4kg each   |
|  | <b>Material</b>  | Polyurethane   |
|  | <b>Connection Cable</b>  | 4.9mm length (2-off required)  |
| <b>Surface Display Console (SDC)</b>   | <b>Interface to</b>  | Communication to subsea pod, data logger, alimeter, printer, video in/out PAL format (optional NTSC). Option: Analogue output      |
|  | <b>Voltage Input</b>   | 110/240V a.c. (range 100-132V/180-264V a.c. autoranging)   |
|  | <b>Input Frequency</b>   | 57-63Hz (@100/132) 47-53Hz (@180/264V)   |
| <b>TSS Coil-Mounted Alimeter</b>   | <b>Dimensions</b>  | 47mmØ x 155mm  |
|  | <b>Frequency</b>   | 500 kHz  |
|  | <b>Range</b>   | Min: 10cm Max: 30m   |
|  | <b>Connection Cable</b>  | 4 metre length. Option: 7m length  |
|  | <b>Connection to</b>   | Subsea Electronics Pod   |
| <b>Depth Rating</b>  | All subsea Components are depth rated to 3000mm. Option: 3000m |  |
| <b>Field Support Kit</b>   | Supplied as part of the recommended system                     |  |

