

TSS 350

Subsea Cable Tracking System



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 enhanced 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, real-time information is presented in a clear 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 on a wide range of subsea vehicles, the 350 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.

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

Features

- 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

- Efficient location of cables at all burial depths
- Confidence in survey data; provides efficient post-processing
- Allows accurate location of all tone-carrying cables
- Allows location and survey of one cable among other cables and subsea pipelines and structures



TSS 350

TECHNICAL SPECIFICATIONS

System performance <i>(dependent on tone – stated performance is based on 25Hz tone at 10mA current)</i>	Vertical measurement accuracy	5cm or 5% of slant range whichever is greater Stated accuracy applies within an envelope approximately 4.2m wide and 4.0m deep
	Maximum detection range	Cable detected at vertical range up to 10m and within a total horizontal swath width of 20m centred on the coil array
Subsea electronics pod (SEP)	Dimensions	140mm (diameter) x 450mm (h)
	Weight	10 Kg in air; 2 Kg in water
	SDC communication	2-wire 20mA digital current loop or 4-wire 20mA digital current loop, RS232 or RS422 via multiplexer
	Voltage input	110V ac (input range 98-135V ac) Optional : 240V ac (input range 198-270V ac)
	Input frequency	57-63 Hz @ 100/132V 47-53 Hz @ 180/264V
Altimeter	Dimensions	140mm (diameter) x 290mm (h)
	Frequency	200 kHz
	Range	Minimum 30cm – maximum 30m
	Connection cable	4m length (optional 7m length)
	Connection to	Subsea electronics pod
Depth rating	All subsea components are depth-rated to 3000m	
Field support kit	Supplied as part of the recommended system	
Warranty	15 months international warranty including parts and labour	
Due to continuous development, specifications may vary from those listed above.		



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