



350 CABLE SURVEY SYSTEMS

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



Accurate detection and survey of tone-carrying cables

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, 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.

Features	Benefits
Good detection range	Efficient location of cables at all burial depths
Accurate and reliable survey data with Quality Control envelope	Confidence in survey data; Provides efficient post-processing
Combination of advanced DSP technology and proven tone-detection techniques	Allows accurate location of all tone-carrying cables
Tone frequency discrimination	Allows location and survey of one cable among other cables and subsea pipelines and structures



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Technical Specifications		
System Performance (dependent on tone - stated performance is based on 25Hz tone at 10mA current)	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	ø140mm x 450mm
	Weight	In air: 10 kg In water: 2 kg
	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) Option: 240V ac (input range 198-270V ac)
	Input frequency	57-63Hz (@ 100/132V) 47-53Hz (@180/264V)
Altimeter	Dimensions	ø140mm x 290mm
	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 (FSK)	Supplied as part of the recommended system	

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