

350

SUBSEA CABLE TRACKING SYSTEM

Detection and survey of tone carrying underwater 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 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.

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

Features

- Accurate and reliable survey data with quality control envelope
- Combination of advanced DSP technology and proven tone-detection techniques
- Tone frequency discrimination



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TECHNICAL SPECIFICATIONS

System performance (dependent on tone – stated performance is based on 25Hz tone at 30mA 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)	Material	3000m hard anodised aluminium housing as standard (6000m stainless steel optional)	
	Dimensions	140mm (d) x 470mm (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	
	ROV connection	Via 8 way impulse connection, 3m tail	
	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	
SDC	SDC hardware	102 key keyboard, pointing device, 15" TFT, XGA monitor, standard 19" rack mounting Overall size (mm): 555 (w) x 455 (h) x 378 (d) inc. transit case	
	Weight	34.8Kg	
	Description	Pentium 4 running Windows™ 2000	
	Disk size	Hard disk: 20Gb Floppy disk: 1.44Mb 3.5" DS-HD CD: 52 x Read	
	Ports	6 serial, 1 USB (front)	
	Interface	20mA current loop, data logger, altimeter, printer, video overlay PAL/NTSC format	
	Voltage input	85-265V AC	
	Input frequency	48-62 Hz	
	Power consumption	250 watts (max)	
	Shock resistance	Operating: better than 5g for <10ms Non-operating: better than 40g for <10ms	
	Altimeter	Dimensions	75mm (d) x 205mm (h)
		Frequency	250 kHz
Range		Minimum 30cm – maximum 30m	
Beamwidth		9° conical	
Connection cable		4m length (optional 7m length)	
Connection to		Subsea electronics pod	
Depth rating		All subsea components are depth-rated to 3000m	
Physical	Weight	Triaxial coils & mounting bar: 70 Kg	
Field support kit	Supplied as part of the system		
Warranty	12 months international warranty including parts and labour		

Due to continuous development, specifications may vary from those listed above.

WORLD LEADERS IN MARINE NAVIGATION



Certificate Number: 160263
BS EN ISO 9001 : 2000

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