



340 PIPE & CABLE SURVEY SYSTEM

- Pipe installation, burial and survey
- Cable installation, burial and survey
- Salvage operations
- Ordnance retrieval
- Site and debris clearance
- Mine countermeasures



Advanced technology for versatile and accurate underwater pipe and cable survey

As commercial, legal and environmental considerations demand that subsea pipelines and cables are correctly installed and maintained in good order, there is a constant demand to verify their location, condition and burial status. This requirement is complicated by the ever-changing seabed topography.

The TSS 340 is a radically different approach to pipe and cable surveys. Target detection is by pulse induction which provides considerable advantages over magnetometer-based systems.

The TSS 340 can locate conductive material, (exposed or buried) and outputs highly accurate survey data on most types of subsea pipeline or cable. It is also effective for use in ordnance retrieval and debris clearance projects. The major advantage of the TSS 340 is that terrestrial magnetism has no effect on data output, which allows accurate survey in areas around subsea structures.

A fully integrated system, the TSS 340 combines location, steering and accurate depth of burial survey data to suit a wide variety of operations.

Features	Benefits
Pulse induction technology regardless of vehicle heading, allows survey around subsea structures	Detects conductive target cancelling out subsea vehicle
Comprehensive software display and menu structure	Simple to use
Quality control envelope and flag	On-line and logged indication of system performance limits
Modular design of systems components	Installation onto a wide range of subsea vehicles
Fully integrated system with altimeter, spares and documentation	Simple to install and service
Comprehensive data output string	Ease of data processing and interface to survey equipment



340 PIPE & CABLE SURVEY SYSTEM

Technical Specifications		
Subsea Electronics Pod (SEP)	Dimensions	ø140mm x 450mm
	Weight	In air: 10kg In water: 2 kg
	SDC	2-wire 20mA digital current loop or 4-wire
	Communication	20mA digital current loop or RS232 via one or two twisted pair or multiplexer
Power Supply Pod (PSU)	Dimensions	ø140mm x 450mm
	Weight	In air: 10kg In water: 2kg
	Voltage input	110V ac (input range 100-130V ac)
	ROV connection	Via 8-way waterproof connector
Surface Display Console (SDC)	SDC Hardware	102 key keyboard, 14" colour VGA monitor, standard 19" rack mounting
	Description	80386DX 25Mhz running MS-DOS version 5.0
	Disk Size	Hard drive: 210 Mb Floppy drive: 1.4Mb (3.5")
	Ports	4 serial, 2 parallel
	Interface	20mA current loop, data logger, altimeter, printer, video in/out PAL format (optional NTSC format)
	Voltage input	100/240V ac (input range 98-132 V ac/196-264V ac)
	Power consumption	400VA
	Input frequency	48-62Hz
	Shock resistance	Operating: better than 5g for <10ms Non-operating: better than 40g for <10Ms
Altimeter	Dimensions	ø140mm x 290mm
	Frequency	200 kHz
	Range	Minimum: 30cm Maximum: 30m
	Connection cable	4m length (optional 7m length)
Depth rating	All subsea components are depth rated to 3000m	
Field support kit	Supplied as part of the recommended system	

Represented by:

TSS (UK) Ltd:

New Mill, New Mill Lane, Witney, Oxfordshire OX29 9SN UK
Tel +44 (0)1993 777700 Fax +44 (0)1993 777701 E-mail: tssmail@tssuk.co.uk

Aberdeen:

Tel +44 (0)1224 707081 Fax +44 (0)1224 707085 E-mail: tssmail@tssuk.co.uk

America:

Tel +1 713 461 3030 Fax +1 713 461 3099 E-mail: tssusa@tssusa.com

S G Brown Division:

Tel +44 (0) 1923 470800 Fax +44 (0) 1923 470842 Email: sgbmail@tssuk.co.uk