

Dualtrack

PIPE & CABLE SURVEY SYSTEM

The most accurate means of obtaining pipe burial data.

There are thousands of miles of pipes and cables beneath our oceans. Commercial, legal and operational considerations demand that these remain in good order. This requirement creates a constant need to verify location, condition and burial status – operations that are complicated by the ever-changing seabed topography.

There is a need for a system that can detect the presence of both pipes and cables, and can provide accurate and reliable survey data, which describes the position of these cables on or beneath the seabed. The system needs to be flexible in its range of uses and in the variety of vehicles on which it can be installed to complete survey work.

TSS is the world leader in developing and supplying technologies to meet these demands. Having developed the world's first commercial pulse induction pipe and cable survey system (TSS 340) in 1991, followed by the release of the TSS 350 AC tone cable survey system, TSS has gone from strength to strength and become the industry standard.

TSS technologies are proven in operation in some of the most exacting environments world-wide, and its equipment is established as the most accurate means of obtaining pipe and cable burial data.

Features

- Suitable for pipe and cable tracking, burial and survey requirements
- Excellent detection and tracking performance
- High accuracy repeatable range data
- Pulse induction technology allows autonomous operation
- System design facilitates quick and easy mobilisation
- AC tone detection mode for measurement at increase burial depths
- Forward search mode for target location



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TECHNICAL SPECIFICATIONS

| System performance | | A C Tone | Pulse Indication |
|--|--|--|--|
| | Detection Range | Cable detected at vertical range up to 10m and within a total horizontal swath width of 20m centred on the coil array | 3cm armoured cable depth and tracking at 1.2m; 1cm unarmoured cable depth and tracking at 0.6m |
| | Vertical measurement accuracy | 5cm or 5% of slant range – whichever is greater. Stated accuracy applies within the quality envelope of 4m. 3cm armoured cable depth and tracking at 1.2m; 1cm unarmoured cable depth and tracking at 0.6m | 5cm or 5% of slant range – whichever is greater. |
| Subsea electronics pod (SEP) & Power supply pod (PSU) | Dimensions | 140mm (d) x 450mm (h) x 3 pods | |
| | Weight per pod | 10 Kg in air; 2 Kg in water | |
| | SDC communication | 2-wire 20mA digital current loop or 4-wire 20mA digital current loop, RS232 via a multiplexer | |
| | Voltage input | Standard 110V ac (input range 98-135V ac); Optional 240V ac (input range 198-270V ac) | |
| | ROV connection | Via 8-way waterproof connector | |
| Surface display console (SDC) | Interface to | Communication to subsea pod, data logger, altimeter, printer, video in/out PAL (NTSC optional), analogue output (optional) | |
| | Voltage input | 100/240V ac (range 100-132V/180-264V ac auto ranging) | |
| | Input frequency | 57-63Hz @100/132V; 47-53 Hz @ 180/264V | |
| | Dimensions | 140mm (d) x 450mm (h) x 3 pods | |
| Altimeter | Dimensions | 140mm (d) x 290mm (h) | |
| | Frequency | 200 kHz | |
| | Range | 30cm to 30m | |
| | Connection cable | 4m length (7m length optional) | |
| | Connection to | Subsea electronics pod | |
| Depth rating | All subsea components are depth rated to 3000m (optional 6000m) | | |
| Field support kit | Supplied as part of the recommended system | | |
| Training | 2 days training (on-site Watford or Aberdeen, UK; Houston, USA) are included in the cost 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



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