HydroPACT 440
Subsea Pipe Tracking System

Industry standard subsea pipe detection

The HydroPACT 440 pipe detection system has been established for a number of years as the industry standard, providing accurate and reliable survey data, which provides the position of conductive assets on or beneath the seabed. The system is flexible in its range of uses and can be installed on a variety of vehicles for undertaking survey work.

It provides a reliable and simple method for performing accurate submarine surveys on a conductive target such as a cable or pipe.

During surveying operations on submarine pipes and cables, the system measures, displays and records the position of the target on or beneath the seabed. The technology used gives the 440 the flexibility to detect any conductive target, whether the material is exposed or buried and the burial state of the target has no effect on system operation. The 440 system operates in real-time and provides accurate measurements at a rate that allows integration on faster ROVs. The measurement technology used also allows the 440 to operate out of water with no degradation in performance, range or accuracy.

The HydroPACT 440 is available as a 110VAC or a 230VAC system, or as a new 24VDC system. This new 24VDC version will help to increase the flexibility and use of the system on vehicles that only support DC power capability. All power options are offered in either 3000m or 6000m rated pods for both new 440 systems, while the 24Vdc option is also available.

PRODUCT FEATURES AND BENEFITS

- Pulse induction technology allows accurate survey information regardless of vehicle heading
- DSP techniques give quality control information
- Long range detection of buried subsea targets
- Simple to install with no time-consuming vehicle calibrations required
- Windows™ based display and control software
- Easy to operate
- Suitable for operations in high current environments
- Provides reliable and high integrity data
- Can survey at great range
- Less time spent during pre-operation
- Familiar easily-accessible software platform
- Intuitive interface requires less training
## Technical Specifications

### System Performance
- Detection range (in a low noise environment):
  - 2.5 cm armoured cable depth and tracking at 1.2 m
  - 1 cm unarmoured cable depth and tracking at 0.6 m
  - 15 cm armoured cable depth and tracking at 1.8 m
  - 10" pipeline depth and tracking at 3.0 m
  - 4" pipeline depth and tracking at 2.2 m
  - 4" umbilical depth and tracking at 2.2 m
- Vertical measurement accuracy (in a low noise environment): The greater of 5 cm or 5% slant range.

### Coil Array
- Dimensions: 1000 mm (l) x 600 mm (w) (3 coils per array)
- Weight: 45.0 kg in air; 14.4 kg in water (coil array)

### Power Supply Unit Pod
- Power input: 110VAC, 230VAC, 24VDC
- Dimensions: 148 mm (Ø) x 468 mm (l)
- Weight: 13.4 kg in air; 3.8 kg in water

### Subsea Electronics Pod
- Dimensions: 148 mm (Ø) x 468 mm (l)
- Weight: 14.0 kg in air; 4.4 kg in water
- Communication: RS-232, 2-wire 20mA digital current loop, 4-wire 20mA digital current loop
- Power input: 110VAC or 230VAC, 24VDC (option upon order)

### Surface Display Computer
- Hardware: 19" ruggedised touch screen panel PC
- Rear mounted comms for all external interfaces
- Display resolution: 1920 x 1080
- Dimensions: 599 mm x 480 mm x 345 mm (including transit case)
- Power consumption: 250W (max)
- Shock resistance: Operating: better than 5g for <10ms; Non-operating: better than 40g for <10ms

### Altimeter
- Dimensions: 140 mm (Ø) x 290 mm (h)
- Frequency: 200 kHz
- Range: 30 cm to 30 m

### Depth Rating
- All subsea components are depth rated to 3000 m as standard (6000 m option)

### Compliance
- Export: No Licence Required
- USA: ECCN: 8A992e

### Warranty
- 12 months international warranty including parts and labour

### Options
- RMC10 (rack mount computer)
- 3, 4, 6, 8 and 10 m cable length options
- Extended Warranty