



HydroPACT 440

Subsea Pipe & Cable Tracking

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.



Courtesy of Helix Robotics Solutions.



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 & 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



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TECHNICAL SPECIFICATIONS

System Performance	Detection range	2.5cm armoured cable depth and tracking at 1.2m		
	(in a low noise environment)	1cm unarmoured cable depth and tracking at 0.6m		
		15cm armoured cable depth and tracking at 1.8m		
		10" pipeline depth and tracking at 3.0m		
		4" pipeline depth and tracking at 2.2m		
		4" umbilical depth and tracking at 2.2m		
		Vertical measurement accuracy (in a low noise environment)	The greater of 5cm or 5% slant range.	
Coil Array	Dimensions	1000mm (L) x 940mm (W) x 30mm (D) (per coil), coil array = 3 coils at 1000mm (L) x 1880mm (W) x 60mm (D)		
	Weight	15kg in air, 4.8kg in water, (per coil), coil array = 45kg in air, 14.4kg in water		
Power Supply Unit Pod	Power input	110VAC	230VAC	24VDC
	Dimensions	148mm (ø) x 468mm (L)	148mm (ø) x 468mm (L)	148mm (ø) x 328mm (L)
	Weight	13.4kg in air; 3.8kg in water	13.4kg in air; 3.8kg in water	10.0kg in air; 3.3kg in water
Subsea Electronics Pod	Dimensions	148mm (ø) x 468mm (L)		
	Weight	12.7kg in air; 4.4kg in water		
	Communication	RS-232, 2-wire 20mA digital current loop, 4-wire 20mA digital current loop		
	Power input	110 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	1280 x 1080		
	Dimensions	599mm x 480mm x 345mm (including transit case)		
	Power consumption	250W (max)		
	Shock resistance	Operating: better than 5g for <10ms; Non-operating: better than 40g for <10ms		
Altimeter	Dimensions	140mm (ø) x 290mm (h)		
	Frequency	200kHz		
	Range	30cm to 30m		
Depth Rating		All subsea components are depth rated to 3000m (6000m option)		
Compliance		The HydroPACT 440 is not listed on the Annex referred to in Article 3 of retained Council Regulation (EC) No. 428/2009 for exports from Great Britain (last amended by SI 2023/695)		
Warranty		12 months international warranty including parts and labour		
Options		RMC10 (rack mount computer, see separate datasheet)		
		Extended warranty		



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