

HydroPACT 350

Subsea Cable Tracking System

The HydroPACT 350 provides a reliable and simple method for performing accurate submarine surveys on a tone-carrying cable. It is available as a 110V system or a 240V system, both depth rated to 3,000m with a 6,000m option.

The 350 system operates in real-time and provides accurate measurements at a rate that allows integration on faster ROVs. The measurement technology used by the system also allows it to operate out of water with no degradation in performance, range or accuracy.

In surveying submarine cables, the system measures, displays and records the position of the target relative to the ROV, and its depth of cover beneath the seabed. Operation is unaffected by the burial state of the target cable, the presence of non-ferrous metallic objects, or the heading of the ROV.

The HydroPACT product family includes a surface display computer (SDC) or rack mount computer (RMC10) option. The SDC displays information from the DeepView for Windows™ software which is used to guide the ROV along the course of the target. It makes all acquired survey data available to external



data logging equipment as well as also being used to configure and control the 350 system. By interpreting the signals from the subsea installation, the SDC provides a graphical display that helps guide the ROV towards the target and then track it. Simultaneously, the SDC uses one of its serial data ports to transmit the real-time survey information to an external data logging system. The RMC10 option offers a smaller footprint that communicates survey data to other equipment on-board the ROV's support vessel, eliminating the need for a separate screen module just for the 350.



PRODUCT FEATURES & BENEFITS

- Cable location data and depth of burial data
- Cable fault location
- Vehicle skew angle data
- Look-ahead information
- Tone frequency discrimination
- Combination of advanced DSP technology and proven tone detection techniques
- Accurate and reliable survey data with quality control envelope



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TECHNICAL SPECIFICATIONS

System Performance	Detection range (in a low noise environment)	Cable detected at vertical range up to 10m and within a total horizontal swath width of 20m centered on the coil array.
		The greater of 5cm or 5% slant range Stated accuracy applies within the quality envelope of 4m. (Results measured on a cable carrying 25Hz tone frequency at 30mA current)
Sensing Coil	Dimensions	68mm (ø) x 340mm (l) (6 coils arranged in two coil triads)
	Weight	3.5kg in air; 2.4kg in water (per coil)
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
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 350 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

