

Trackpoint II Plus

Acoustic Tracking & Navigation System

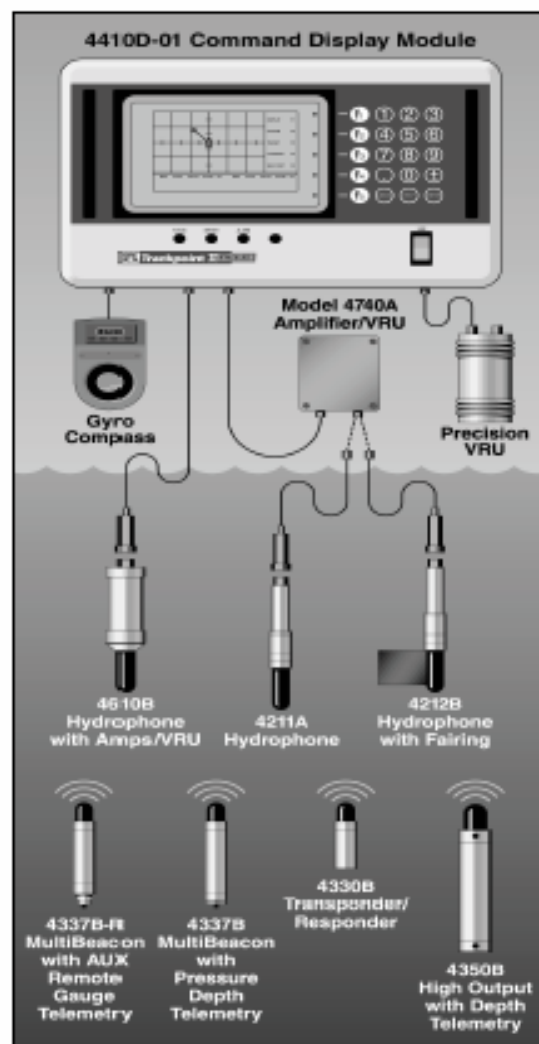
High Accuracy Data For Less Than You Would Imagine...



For over 15 years, ORE's family of Trackpoint Systems have been providing customers with highly reliable, ultrashort baseline, acoustic tracking data. ORE's high accuracy Trackpoint II Plus continues this legacy, offering the industry a tremendous value at a reasonable price.

The Trackpoint II Plus is the ideal tool for a wide array of subsea navigation and relocation tasks. Target types consist of transponders, responders or free running pingers.

Trackpoint II Plus presents users with a video display of the underwater position of the target or targets relative to a chosen reference point on the surface vessel. In addition to the graphic display of target position, Trackpoint II displays digital values for bearing and range to each target. A standard RS-232 connector outputs position data for each target and allows input of most keypad control functions.



The basic Trackpoint II Plus System consists of:

- Model 4410D-01 Command/Display Module
- Model 4610B Transducer Assembly
- Model 4110B Interconnect Cable
- Model 4330B Acoustic Transponder
- Model 4324C Battery Charger

Features

- High accuracy; 0.5% slant range
- Compatible with other industry transponders
- Data interfaces available for third party navigation software packages
- Accepts external analog data from compasses and pressure sensors
- ORE's legendary service to support you every step of the way

Applications:

- UUV/AUV Tracking
- ROV Tracking & Navigation
- Survey / Towfish Navigation
- Subsea Structure Relocation
- Subsea Salvage Operations
- Diver Navigation
- Mooring Marking & Relocation
- Subsea Positioning
- Depth, Tilt, Heading Telemetry



Trackpoint II Plus Specifications

Relative Accuracies	Horizontal Position Accuracy	0.5% RMS of slant range (+40 dB signal to noise ratio) (not including effects of heading, pitch & roll)
	Slant Range Accuracy	0.5 meter (with known sound velocity)
	Target Position Repeatability	Better than 0.25% RMS of Slant Range
	Calibrated Accuracy	Better than 0.3% RMS of Slant Range
System Resolution	Range Resolution	0.3 meters
	Bearing Resolution	0.1° (Better than 0.2% of Slant Range)
Receive	Available Frequency Bands: 8-14 kHz, 22-30 kHz, 31-37 kHz, 35-45 kHz in 500 Hz increments	
Transmit	Frequency: 4.5-30 kHz in 500 Hz increments	
Pulse Width	1-15 ms in 0.1 ms increments	
Repetition Interval	1-20 second intervals in 0.1 second increments	
Output Power	500 or 100 watts into 300 ohms	
Display Modes and Choices	Individual Target or Ship Centered Modes; Rectangular or Polar Display; North or Ship Referenced Grid Scales – selectable units (meters, feet, yards); Grid Center Offset or Fish Track Mode	
External Systems Inputs / Outputs	Analog signal for pressure sensor or automatic target depth input Analog compass input to allow North referenced display mode Remote key pulse to synchronize system to other equipment, +TTL Com 1, RS232C serial data port for system integration and output Com 2, RS232C serial data port for input of NMEA compass heading Remote VRU (pitch/roll) input. Offsets automatically calculated. Isolate transmit trigger output for responder key pulse, (+) TTL or (-) TTL Normal transmit trigger output (-) TTL level pulses for responder key or synchronization to other equipment VGA output to remote monitor	
Model 4410D-01	Size:	10.5 in. high x 17.0 in. wide x 20.0 in. deep (26.7 x 43.0 x 51.0 cm)
Command/Display Module	Weight:	55 lbs. (25 kg)
Model 4610B	Size:	25.0 in. long x 6.0 in. diameter (63.0 x 15.0 cm)
Hydrophone/VRU Assembly	Weight:	26 lbs. (12 kg)
Model 4211A	Size:	24.0 in. long x 2.75 in. diameter (61.0 x 7.0 cm)
Slim Hydrophone	Weight:	8 lbs. (3.6 kg)
Model 4740A	Size:	15.5 in. long x 13.0 in. wide x 6.0 in. deep (39.4 x 33.0 x 15.2 cm)
Amplifier/VRU	Weight:	24 lbs. (10.8 kg)
Model 4110B Cable	Length:	100 ft. (30m) standard, other lengths available
	Weight:	35 lbs. (16 kg)
Power Requirements	Input Voltages:	97 to 132 / 170-264 VAC, 47-63 Hz, 200 watts
Temperature Ranges	Command/Display Module:	-10 to 55° C operating / -40 to 70° C storage
	Hydrophones:	0-95% relative humidity, non-condensing -4 to 40° C operating / -40 to 70° C storage

Specifications subject to change without notice.



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