Teledyne RESON

SeaBat® T20-P

High resolution multibeam echosounder





Superior acoustic quality engineered for the demanding marine environment

The T20-P is a new addition to the leading SeaBat product range engineered from the ground up to evolve with your business. Combined with the Portable Sonar Processor the T20-P provides uncompromised survey data in a highly portable waterproof package designed for small vessel use.

The solution includes a range of powerful software features at an attractive price, with the option for future feature expansions to grow with your needs.

The T20-P can be supplied in ruggedized flight cases with total weight and dimensions suitable for check-in on commercial airlines and can be transported by one person.

T20-P Standard configuration

Portable Sonar Processor:

- Reduced cable connections fast mobilization
- Single-point, accurate, sensor time-tagging
- Water-resistant IP54 rated
- 24VDC and 100-230VAC for maximum flexibility
- 10m cable to wet-end components

T20 sonar head assembly

- 190 420kHz wide-band
- Robust titanium housing
- Less than 8kg in water

3 years warranty

Our hardware is quality-tested to meet the most demanding standards, and backed by the full support of our comprehensive after-sales program, and 3 years of warranty you can be sure that the T20-P won't let you down.

PRODUCT BENEFITS

Product features

- Sonar User Interface highly configurable to suit your needs.
- Snippets & sidescan backscatter
- Full water column backscatter
- Tracker powerful tool for automated control
- Selectable Beam Density you can define what you need to get the job done

Optional extra features

- X-Range improve range and reduce external noise
- Multi-Detect Multiple detections for enhanced detail over complex features and water column targets
- FlexMode increase data density where you need it most
- Pipe Detection & Tracking unique to SeaBat, optimize detection of pipes
- Full Rate Dual Head



SeaBat® T20-P

SEABAT T20-P SYSTEM SPECIFICATIONS

Input voltage		24VDC or 100-230VAC 50/60Hz				
Power (typical / max)	200W / 300W					
Ingress protection		Water resistant (IP54)				
TRANSDUCER CABLE LENGTH	10m (standard), 25m, 50m, 100m (optional)					
Temperature (operational / storage)		Portable Sonar Processor: -5°C to +45°C / -30°C to +70°C				
		Sonar wet-end: -2°C to +36°C / -30°C to +70°C				
	Height [mm]	width [mm]	depth [mm]	weight [kg/air]	weight [kg/water]	
T20 Rx (EM7219)	102.0	254.0	123.0	5.0	2.2	
T20 Tx (TC2181)	86.6	93.1	280	5.4	3.4	
Portable Sonar Processor	131	424	379	14	N/A	
T20 Acoustic performance		400kHz (max. frequency) 200kHz(min. frequency)				
Across-track receiver beam width ¹		1º (center)		2º (center)		
Along-track beam width ¹		1°		2°		
Number of beams		Min 10, Max 1024				
Swath coverage (up to)		140° Equi distance 165° Equi Angle (12x water depth with dual head)				
Typical Depth (CW²)		0.5-150 meters		0.5	0.5-375 meters	
Max Depth (CW³)		250 meters		550 meters		
Typical Depth (FM²)		0.5-180 meters		0.5-450 meters		
Max Depth (FM³)		300 meters		575 meters		
Ping rate (range dependent)		Up to 50 pings/s				
Pulse length (CW)		15 – 300μs				
Pulse length (FM)		300μs – 10ms				
Depth resolution		6mm				
Depth rating (sonar head)		50 meters				

For relevant tolerances for dimensions above and detailed outlined drawings see Product Description

- 2 This is a depth range within which the system is normally operated, from the minimum depth to a depth value corresponding to the max. swath -50%.
- 3 This is the single value corresponding to the depth at which the swath is reduced to 10% of its max. value. For actual swath performance refer to Product Description.
- 4 An extinction coverage of +/-20° is observed at about 530 meter water.

T20-P Scope of supply

- Receiver EM7219
- Projector TC2181
- Portable Sonar Processor
- 10m Receiver cable
- 10m Projector cable
- Waterproof cable set
- Wet-end bracket

Optional extras

- Normalized backscatter
- 25m, 50m, 100m cable
- **Fairing**
- Dual head bracket
- Motion and positioning sensors
- **RESON Sound Velocity Probes**
- RESON Teledyne PDS Survey Package
- **RESON Service Level Agreements (SLA)**



Specifications subject to change without notice.
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