

Gaps M5

Pre-calibrated USBL system



Gaps M5 is a Medium frequency Ultra-Short Baseline (USBL) positioning system for accurate location, positioning and tracking of subsea assets, from ultra-shallow water to medium water depths. It combines an USBL integrated with a heading and attitude sensor based on iXblue FOG technology. Available in free of export version* and extended range version (Gaps M5-XR). Gaps M5 is a lighter and more compact version of Gaps

Specifications

Product	Gaps M5
Country of origin	France
Manufacturer	Exail Technologies SA
Materials	Carbon fiber painted

Features and benefits

- 200° aperture: above horizontal tracking.
- Not subject to export restrictions*
- Robust True North finding sensor.
- DP compatible LBL/USBL.
- Third-party transponder compatible.
- Acoustic communication (telemetry).
- 3D display software included (Delph Roadmap).
- Calibration free
- Shallow water and horizontal tracking
- Accurate absolute positioning
- Easy to install, operate and repair for cost-efficiency

Transceiver performance

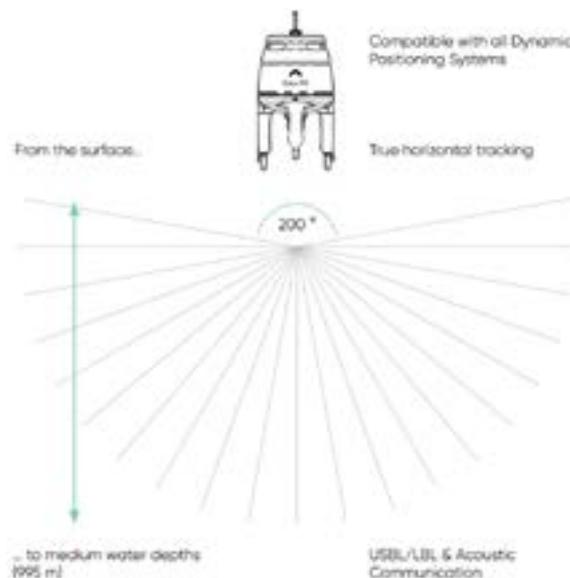
Operating range*	995m with Gaps M5, 4,000m with extended range version Gaps M5-XR
Acoustic coverage	200°
Acoustic precision	0.1 % of the slant range CEP50
Positioning accuracy	0.2 % of slant range CEP50
Range accuracy	20 mm
Operational frequency	MF (20-30 kHz)

Embedded MRU

Type	Fiber-optic Gyrocompass
Heading	0.15 deg secant latitude (RMS)
Pitch & roll	0.1°
Settling time	5 minutes

Electrical

Power supply	230 VAC (50/60Hz) / 24-36 VDC
Consumption	22 W
Synchro IN	1 PPS ; 1 Trigger
Synchro OUT	2 TTL Pulses
Communication	4 Serial (RS232/422/485), 1 Ethernet (RJ45)



Environmental

Storage temperature	-40 to +70°C
Operating temperature	-5 to +35°C
Max. antenna deployment depth	25 m

Physical characteristics

Dimensions	520.8 x 296 mm
Material	Carbon fiber painted
Weight in air / water	14 kg / 5 kg
Gaps cable length	20m (50m and 95m optional)

Interface unit (Gaps box)

Dimensions	233x330x94 mm
Weight	4.6 kg
EMC	89/336/EEC - EN 60945

