

Miniature UGPS beacons

– Locator A1, D1, U1

The Water Linked Underwater GPS G2 system is an exceptionally reliable positioning system that can be operated with any of the above Locators.

The A1 Locator is the smallest of all the locators. It must be physically connected to the G2 Topside, either directly or through a full system integration. As depth is not measured by the A1 Locator, this information must be provided by the user and delivered to the G2 Topside using the Water Linked API.

The D1 Locator has an integrated depth sensor and therefore can be used with the G2 system without the need for additional sensors. Simply

connect the D1 Locator directly to the G2 Topside and you will be able to accurately track the position of any platform the D1 Locator is fitted onto.

The U1 Locator is a battery powered locator with an integral depth sensor. This allows the U1 Locator to be used without the need for direct connection to the G2 Topside. A rechargeable battery in the U1 Locator provides continuous operation for up to 10 hours. To achieve timing synchronisation the U1 Locator must first achieve a GPS lock, achieved by simply powering up and waiting for the integrated LED to confirm successful GPS lock.

Key features

- Highly robust operation in areas with strong acoustic reflections
- Extremely small size enabling easy mounting and integration
- 300m operating range
- Standalone operation or fully integrated options
- A1 and D1 available with customer specified cable lengths
- U1 recharges fully in 5 hours



Acoustic | performance

Locator model	A1	D1	U1
Frequency	31.25 – 250 kHz	31.25 – 250 kHz	31.25 – 250 kHz
Ping rate	2 Hz	2 Hz	2 Hz
Directivity	Omnidirectional	Omnidirectional	Omnidirectional
System range	300 meters	100 meters	300 meters

Electrical | interface

Locator model	A1	D1	U1
Input voltage	G2 Topside (10-18 Vdc)	G2 Topside (10-18 Vdc)	Integrated battery
Power drain	<1 W	~1 W	N/A
Battery duration	N/A	N/A	~10 hours
Time to recharge	N/A	N/A	~5 hours
Charging power drain	N/A	N/A	8W @ 5 Vdc
Charging connection	N/A	N/A	USB-C

Mechanical

Locator model	A1	D1	U1
Diameter	2 cm	3 cm	3.2 cm
Length	4.1 cm	8.1 cm	13.3 cm
Weight in air	0.03 kg	0.05 kg	0.175 kg
Depth rating	300 meters	300 meters	200 meters
Operating temperature	-10 to 60°C	-10 to 60°C	-5 to 60°C

Approvals

CE