

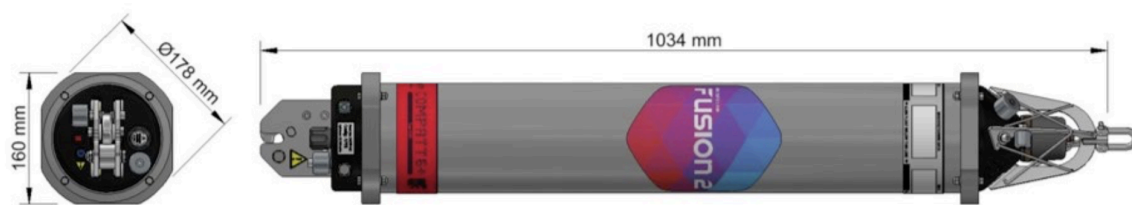
Compatt 6+ USBL/LBL Transponder



Compatt 6+ is the new industry standard, Wideband®2 and 3 enabled transponder, used for high-precision survey and construction operations in all water depths. Compatt 6+ is fully compatible with all 6G® equipment and Sonardyne's latest 6G LBL, INS and USBL systems, including Fusion 2.

Key Features

- Medium Frequency (MF) band utilising Sonardyne
- Wideband 2 and 3 telemetry protocols
- Sonardyne Wideband 2 and HPR 400 navigation compatible
- Faster and easier to set-up, calibrate and operate
- Robust performance
- Real time diagnostics available on ranges to enable quality control
- Multiuser support included
- Automatic power-down if not used for a programmable period
- Integrated modem mode with data rates from 100 to 9,000 bps
- Highly reliable release mechanism
- Omni or directional transducer
- Standard sensors – Temperature, pressure and MEMS inclinometer
- Optional sensors – DigiQuartz, inclinometer and sound velocity
- Battery disconnect fob allows quick battery disconnection



8300-3111 omni-directional shown above

Feature		Type 8300-3111	Type 8300-3113	Type 8300-5213
Depth rating		3,000 m	3,000 m	5,000 m
Operating frequency		MF (20–34 kHz)	MF (20–34 kHz)	MF (20–34 kHz)
Transducer beam shape		Omni-directional	Directional	Directional
Transmit source level (dB re 1 μ Pa @ 1 m)		187–196 dB (4 levels)	190–202 dB (4 levels)	190–202 dB (4 levels)
Tone equivalent energy (TEE) ¹		193–202 dB	196–208 dB	196–208 dB
Receive sensitivity (dB re 1 μ Pa)		90–120 dB (7 levels)	80–120 dB (7 levels)	80–120 dB (7 levels)
Ranging precision		Better than 15 mm	Better than 15 mm	Better than 15 mm
Number of unique Wideband 2 addresses		>300	>300	>300
Battery life (listening)	Alkaline	833 days	833 days	833 days
	Lithium	1,390 days	1,390 days	1,390 days
External power supply		24 V	24 V	24 V
Safe working load (4:1)		250 kg	250 kg	250 kg
Operating temperature		-5 to 40°C	-5 to 40°C	-5 to 40°C
Storage temperature		-20 to 55°C	-20 to 55°C	-20 to 55°C
Dimensions (maximum) (length x diameter)	With sensor guard	1,034 x 200 mm	1,018 x 200 mm	1,018 x 200 mm
	Without sensor guard	1,034 x 178 mm	n/a	n/a
Weight in air/water ²		23.8/11.8 kg	27.0/14.0 kg	29.0/15.0 kg

Endcap sensors and options	Type 8300-3111	Type 8300-3113	Type 8300-5213
Temperature ($\pm 0.1^{\circ}\text{C}$)	Standard	Standard	Standard
Tilt switch ($\pm 30\text{--}45^{\circ}$)	Standard	Standard	Standard
Strain gauge pressure sensor ($\pm 0.1\%$)	Standard	Standard	Standard
High precision strain gauge ($\pm 0.01\%$) Presens or Keller	Optional	Optional	Optional
Paroscientific DigiQuartz pressure sensor 1,350 m, 2,000 m, 4,130 m, 6,800 m ($\pm 0.01\%$)	Optional	Optional	Optional
Inclinometer (tilt sensor) range $\pm 90^{\circ}$, accuracy: $\pm 1^{\circ}$	Standard	Standard	Standard
High accuracy inclinometer range: $\pm 90^{\circ}$, accuracy: $\pm 0.05^{\circ}$ over $0 - \pm 15^{\circ}$; $\pm 0.2^{\circ}$ over $0 - \pm 45^{\circ}$	Optional	Optional	Optional
Sound velocity sensor ± 0.02 m/s accuracy under calibration conditions	Optional	Optional	Optional
Release mechanism	Standard	Standard	Standard
Power for external sensors	Standard	Standard	Standard
Gyro input	Standard	Standard	Standard

¹ WBv2+ signals are 4x the duration of Sonardyne tone signals (WBv2 are 2x). The TEE figure shows the operational performance when comparing wideband and tone systems.

² Estimated weights.