Continuous Transmitters - 69 kHz

Transmitters that emit a continuous ping for use in real-time and active tracking studies of a wide variety of aquatic animals

Continuous transmitters provide researchers with the means to actively track movement patterns of a broad range of aquatic animals. Available in a variety of sizes (9mm, 13mm and 16mm in diameter), continuous tags can be used to track small, medium and large species.

In continuous transmission mode, the acoustic ping is sent as a fixed rate that is factory pre-set and typically between one and three seconds making this mode ideal for real-time tracking studies.

Tag Sensor Options

For research requiring temperature and depth information, V9, V13 and V16 continuous tags can be equipped with temperature (T) or depth (P), or both temperature and depth sensors (TP).

V9 Sensor Tag

Temperature Sensors (V9, V13, V16)		
Range	Accuracy	Resolution
-5 to 35 °C	±0.5 °C	0.15 °C
-4 to 20 °C	±0.5 °C	0.1 °C
0 to 40 °C	±0.5 °C	0.15 °C
10 to 40 °C	±0.5 °C	0.12 °C

V13 and V16 Pressure Sensors (at room temperature)		
Max Depth	Accuracy	Resolution
17 m	±1.7 m	0.075 m
34 m	±1.7 m	0.15 m
68 m	±3.4 m	0.3 m
136 m	±6.8 m	0.6 m
204 m	±10 m	0.9 m
340 m	±17 m	1.5 m
680 m	±34 m	3.0 m

V9 Pressure Sensors (at room temperature)		
Max Depth	Accuracy	Resolution
17 m	±0.5 m	0.075 m
34 m	±0.5 m	0.15 m
68 m	±1.0 m	0.3 m
136 m	±1.0 m	0.6 m
204 m	±1.0 m	0.9 m
290 m	±2.0 m	1.28 m

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Case Options

The V16 comes in two case styles. The internally implanted unit comes in an epoxy case with rounded ends. The externally mounted unit is made of PVC with attachment holes at either end. The externally mounted unit is 18 mm in diameter and is approximately 19 to 23 mm longer than the internal V16 depending on the model.

Pair With

Continuous transmitters are used as a system with:

» VR100 Active Tracking Receiver

» Directional and Omni-directional Hydrophones (69 kHz)

Tag Family	Diameter (mm)	Frequency (kHz)	Length (mm)	Weight in Air (g)	Weight in Water (g)	Power Output dB re 1 µPa @ 1m (Low / High)	Battery Life (days) 1000 ms	Battery Life (days) 2000 ms
V9-1x	9	60, 63, 75, 78, 81, 84	24	3.6	2.0	146 / 151	19	37
V9-2x	9		27.5	4.5	2.7	146 / 151	35	69
V9T-2x	9		27.5	4.5	2.7	146 / 151	31 (15)	62 (39)
V9P-2x	9		31	4.9	2.8	146 / 151	32 (15)	63 (39)
V9TP-2x	9		31	4.9	2.8	146 / 151	36 (24)	N/A
V13-1x	13	60, 63, 75, 78, 81, 84	30.5	9.2	5.1	147 / 152	66	129
V13T 1x	13		34	9.7	4.8	147 / 152	60 (29)	117 (73)
V13P-1x	13		39	11	5.5	147 / 152	18 (8)	36 (22)
V13TP-1x	13		39	11	5.5	147 / 152	48 (33)	N/A
V16-4x	16	51, 54, 57, 60, 63, 75, 78, 81, 84	68	24	10.3	152 / 158	422	810
V16-5x	16		95	36	16.9	157 / 162	226	440
V16-6x	16		95	34	14.9	152 / 158	803	1511
V16T-4x	16		68	24	10.3	152 / 158	405 (202)	779 (495)
V16T-5x	16		95	36	16.9	157 / 162	222 (110)	431 (272)
V16T-6x	16		95	34	14.9	152 / 158	772 (390)	1455 (940)
V16P-4x	16		71	26	12	152 / 158	125 (62)	248 (154)
V16P-5x	16		98	37	17.5	157 / 162	100 (50)	197 (123)
V16P-6x	16		98	36	16.5	152 /1 58	243 (120)	477 (298)
V16TP-4x	16		71	26	12	152 / 158	320 (219)	N/A
V16TP-5x	16		98	37	17.5	157 / 162	198 (135)	N/A
V16TP-6x	16		98	36	16.5	152 / 158	613 (422)	N/A

T - Temperature, P - Pressure, TP - Temperature/Pressure. Battery life examples shown are for LOW power. Please contact your Sales Representative to discuss which power option (HIGH or LOW) is best for your study and to obtain HIGH power life estimates. Shelf life will affect tag life and therefore tags should be deployed within a reasonable amount of time from purchase. Please contact your Sales Representative to determine the time frame within which your tags should be deployed.

Ready to Get Started? Contact us today.

About Innovasea

Innovasea designs the world's most technologically advanced aquatic solutions for fish tracking and builds them to withstand the toughest conditions. It's all driven by a commitment to make our ocean and freshwater ecosystems sustainable for future generations. Today. Tomorrow. For life.