


VEMCO

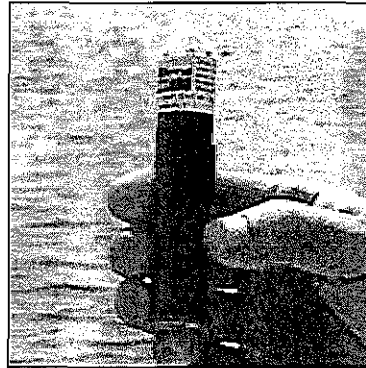
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 Les enjeux liés aux levés sismiques dans
 l'estuaire et le golfe du Saint-Laurent

6212-08-001
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V22 Continuous Transmitters



The V22 acoustic tag was developed for short term animal tracking studies requiring high power output. Typical applications include monitoring fast moving or very large species such as tuna or whales. The V22 is available in continuous transmission mode only, meaning the acoustic pulse is sent at a factory pre-set fixed rate between one and two seconds. V22's can measure temperature, depth, or both temperature and depth.

V22's are typically tracked in the field with a VR60 receiver and a VH11 directional low frequency hydrophone, or with the VR28 receiver system. Tags are available in a frequency range of 34 to 50 kHz in 1 kHz steps, however, for real time tracking of multiple animals, 3 kHz spacing between transmitters is recommended.

Options:

The V22 tag is available with several options:

Extra Power. An additional 3 dB output power is available for high noise environments.

Reed Switch. A reed switch uses a small removable magnet to activate or deactivate the transmitter.

Pressure sensor [V22P]. Available pressure sensor ranges include: 17, 34, 68, 134, 204, 340, 680, and 1020 meters. Accuracy is 3% of full scale so it is important to order the range you require based on your maximum expected depth. Permanent damage to the sensor will occur after 50% over extension.

Temperature sensor[V22T]. Temperature sensor ranges are: -5 to 35 C; or -4 to 20 C.

Temperature & Depth sensors [V22TP]. It is possible to equip the V22 with both temperature and depth sensors. Ranges should be selected from items 3 & 4 above.

V22 Specifications

The physical measurements and expected life span of the V22 vary with sensor selection. V22 continuous tags have three standard transmission pulse periods: 1000, 1500 or 2000 mSec. Other pulse periods are available by request.

Specifications and battery life details of the V22 are as follows:



V22	(no sensor)	V22P-5XS (one sensor)	V22T-5XS or V22TP-5XS (two sensors)	UNITS
Length	100	100	100	Millimeters
Diameter	22	22	22	Millimeters
Power Output	165	165	165	dB re 1 uPa @ 1m
Weight - Air	74	74	74	Grams
Weight - Water	35	35	35	Grams
Life @ 1000ms	14	13	13	Days
Life @ 1500ms	19	19	19	Days
Life @ 2000ms	24	24	23	Days

Extra Power

For high noise or extended range environments, extra power output may be necessary. Specifications and battery life details of the V22-EP are as follows:

V22	V22-5XS-EP (no sensor)	V22T-5XS-EP or V22TP-5XS-EP (one sensor)	V22T-5XS-EP or V22TP-5XS-EP (two sensors)	UNITS
Length	120	120	120	Millimeters
Diameter	22	22	22	Millimeters
Power Output	168	168	168	dB re 1 uPa @ 1m
Weight - Water	40	40	40	Grams
Life @ 1000ms	11	10	10	Days
Life @ 1500ms	15	15	15	Days
Life @ 2000ms	19	19	18	Days

ORDERING V22 CONTINUOUS TAGS

When ordering the V22 tag in continuous mode, please specify the following (if applicable).

V22S-5XS-FKHz-T-Um-R-EP (Q ms)

where:

- S = sensor type: temperature (T), pressure (P), or both (TP)
- F = frequency (in kilohertz): 51.0, 54.0, 57.0, 60.0, 63.0, 66.0, 72.0, 75.0, 78.0, 80.0, or 84.0 KHz
- T = temperature range: A = -4°C to 20°C; B = -5°C to 35°C
- U = maximum depth: 17, 34, 68, 134, 204, 340, 680, or 1020 meters
- R = read switch option: 0 = activation wires (no read switch); 1 = read switch (no wires)
- EP = extra power option: 00 = not included; EP = extra power included
- Q = pulse period in milliseconds

For example, a V22P-5XS-60KHz-68m-0-EP operates at 60KHz and has a pressure sensor that operates to a depth of 68 meters. There is no read switch but it does have the extra power option.