

Mini Submersible Pump

SBE 5M



The SBE 5M pump module consists of a centrifugal pump head and a long-life, DC ball bearing motor contained in a compact, titanium, pressure housing usable to 10,500 meters deep. The pump impeller and electric drive motor are coupled magnetically through the housing, providing high reliability by eliminating moving seals. Motor speed and pumping rate remain constant over the entire input voltage range. The motor drive electronics is intrinsically protected against accidental reversed polarity.

APPLICATIONS

The SBE 5M is standard on the SBE 19 and 19*plus* SEACAT Profiler CTD. It is optional on the SBE 16, 16*plus*, and 16*plus*-IM SEACAT C-T Recorder. The pump flushes water through the conductivity cell at a constant rate, independent of the CTD's motion, improving dynamic performance. For applications requiring pumping through additional sensors (for example, a dissolved oxygen sensor), use the SBE 5T pump instead.

Specify:

- Option 5M-1 for profiling (continuous duty) applications such as the SBE 19*plus*.
- Option 5M-2 for moored (pulsed duty) applications such as the SBE 16*plus* or 16*plus*-IM.

Contact Sea-Bird for use in other applications.

SPECIFICATIONS

Option 5M-1 (continuous duty):

Input voltage range 9 - 18 VDC

Flow Rate 25 ml/s supply current 95 ma

Note: Supply current is independent of operating voltage.

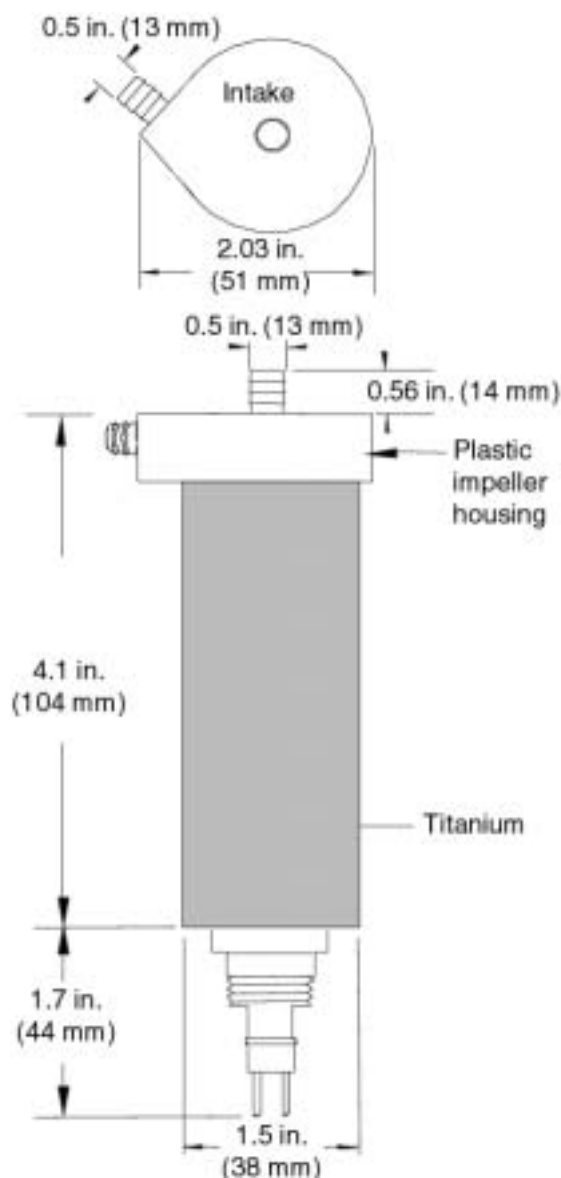
Option 5M-2 (pulsed duty):

Input voltage range 6 - 18 VDC

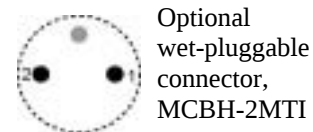
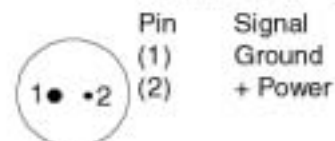
Pulse Duration	Flow Volume	Electrical Charge
0.5 seconds	15 ml	0.148 amp-seconds
1.0 seconds	21 ml	0.283 amp-seconds
1.5 seconds	31 ml	0.418 amp-seconds
2.0 seconds	40 ml	0.553 amp-seconds

Weight

In Air: 0.42 kg (0.91 lbs)
In Water: 0.28 kg (0.60 lbs)



XSG-2BCL-HP-SS



Sea-Bird Electronics, Inc.
1808 136th Place NE, Bellevue, Washington 98005 USA
Website: <http://www.seabird.com>

E-mail: seabird@seabird.com
Telephone: (425) 643-9866
Fax: (425) 643-9954