

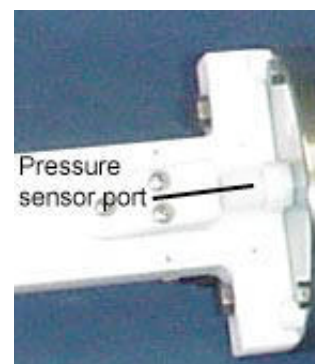
SBE 54 Tsunameter

Configuration Details

[Brochure/specifications](#) Manual (not yet available)

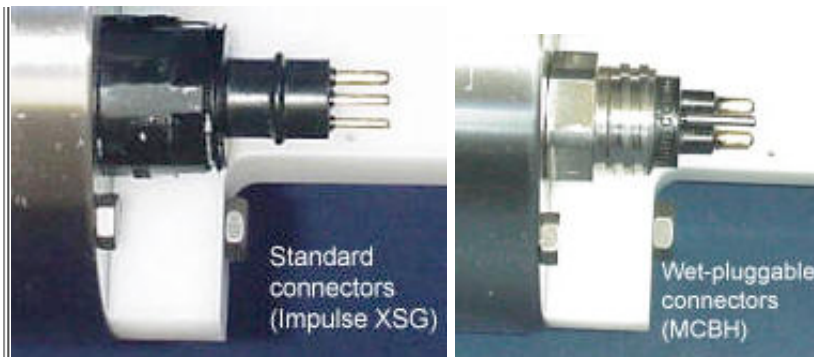
Note: We do not publish prices on the website. Please contact Sea-Bird (seabird@seabird.com or 425-643-9866) for pricing.

Part #	Description	Notes
54	Tsunameter (Tsunami pressure sensor) - Includes 10,000 psia (6800 m) Digiquartz pressure sensor, 128 MB Flash memory, titanium housing for 7000 m depth, RS-232 serial interface, 2.5 m data I/O cable (801225), software, & complete documentation.	SBE 54 continuously measures & outputs pressure every 15 seconds, with a pressure resolution of better than 1 mm at full ocean depth (7000 m). Its sole purpose is to function as heart of a deep ocean tsunami detection system. Standard SBE 54 is externally powered. For photos of standard shipment, click here (not yet available).
SBE 54 Housing Option		
54-1	Optional longer housing with battery compartment for 12 D (LR-20) cells	Standard SBE 54 is externally powered. Longer housing provides a battery compartment for 12 D alkaline cells (LR-20) or 6 DD lithium cells. Internal battery is diode or'ed with external supply for use as backup to external power supply.
SBE 54 Pressure Sensor Range (depth) Options		
54-2a	Substitute 6000 psia (4000 m) Digiquartz sensor	Pressure sensor is installed in connector end cap, & is not field replaceable / swappable. While highest pressure rating gives you most flexibility in using SBE 54, it is at expense of resolution. It is advantageous to use lowest range pressure sensor compatible with your intended maximum operating depth , because resolution is proportional to pressure sensor's full scale range. For example, comparing 2000 & 10000 psia sensors -- <ul style="list-style-type: none"> Optional 2000 psia (1300 m) sensor: resolution = $1 \times 10^{-7} * 1300 \text{ m} = 0.00013 \text{ m} = 0.1 \text{ mm}$ Standard 10,000 psia (6800 m) sensor: resolution = $1 \times 10^{-7} * 6800 \text{ m} = 0.00068 \text{ m} = 0.7 \text{ mm}$
54-2b	Substitute 3000 psia (2000 m) Digiquartz sensor	
54-2c	Substitute 2000 psia (1300 m) Digiquartz sensor	
SBE 54 Wet-Pluggable Connector Option		



54-3

Substitute Wet-pluggable (MCBH) connectors for Standard (XSG/RMG) connectors on instrument and data I/O cable



Wet-pluggable connectors may be mated in wet conditions. Their pins do not need to be dried before mating. By design, water on connector pins is forced out as connector is mated. However, they must not be mated or unmated while submerged. Wet-pluggable connectors have a non-conducting guide pin to assist pin alignment & require less force to mate, making them easier to mate reliably under dark or cold conditions, compared to our standard (Impulse XSG/RMG) connectors. Like standard connectors, wet-pluggables need proper lubrication & require care during use to avoid trapping water in sockets.

54-3 includes data I/O cable compatible with wet-pluggable data I/O connector.

[Product configuration options listing for all products](#)

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