



## SBE 18 Configurations

Housing	Connector	Endcap
1 – aluminum	1 – XSG	1 – Straight
		2 – Right angle

Example: 18.111 is an SBE 18 with aluminum housing, XSG connector, and straight endcap. See table below for description of each selection:

PART #	DESCRIPTION	NOTES
18	<p>pH SENSOR - Modular sensor for use in profiling mode only, 1200 meter depth capability, output 0-5 V. Includes plastic soaker bottle, KCl soaker solution. and complete documentation.</p>	 <p>Replaceable pH probe is permanently sealed &amp; is supplied with soaker bottle attachment that prevents reference electrode from drying out during storage. Soaker solution is pH 4 buffer solution saturated with KCL.</p> <p>SBE 18 can be ordered in two ways:</p> <ul style="list-style-type: none"> <li>• By itself; consult Sea-Bird to order interface cable or mount kit separately, if needed.</li> <li>• As an option in SBE <a href="#">9plus</a>, <a href="#">19plus V2</a>, or <a href="#">25plus</a> Auxiliary Sensor Options, complete with sensor, CTD interface cable, &amp; mount kit.</li> </ul> <p>Sea-Bird does not recommend use of this pH sensor for moored applications; see <a href="#">Application</a></p>

		Note 76: pH or pH/ORP Sensors and Moored Applications.
<b>SBE 18 Connector Selections — MUST SELECT ONE</b>		
18.11x	<b>XSG</b> connector	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 un-mated 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 XSG/AG connectors. Like XSG/AG connectors, wet-pluggables need proper lubrication & require care during use to avoid trapping water in sockets.
18.12x	<b>Wet-pluggable</b> (MCBH) connector	

		<p>Standard connector (Impulse XSG)</p> <p>Wet-pluggable connector (MCBH)</p>
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**SBE 18 Endcap Selections — MUST SELECT ONE**

<p>18.1x1</p>	<p><b>Straight endcap</b> (for vertical mounting)</p>	<p>25.0 cm (9.8 in.)</p> <p>Photo at top shows straight endcap; drawing at</p>
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18.1x2	<b>Right angle</b> endcap (for horizontal mounting)	right shows right angle endcap. SBE 18 must always be mounted with pH probe in an approximately vertical orientation, because bulb at bottom is filled with a KCl solution, and needs to stay filled while in use. Deviation from vertical by some degrees will not affect data, as long as bulb remains filled. Right angle probe configuration is typically required for applications where CTD is mounted horizontally (for example, in extension stand below SBE 32 Carousel Water Sampler) & SBE 18 is mounted to CTD.
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**SBE 18 Spares & Accessories**

17474	Interface cable, SBE 18 to 9plus, AG/RMG connectors, 0.8 m (DN 30918)	These are cables to interface SBE 18 to Sea-Bird CTDs. Order cable to match CTD and to match connector type.
171827	Interface cable, SBE 18 to 9plus, Wet-pluggable connectors, 0.8 m (DN 32845)	
17595	Interface cable, SBE 18 to 19plus / 19plus V2 / 25 / 25plus, AG/RMG connectors, 1.1 m (DN 30918)	
171828	Interface cable, SBE 18 to 19plus / 19plus V2 / 25 / 25plus, Wet-pluggable	

	connectors, 1.1 m (DN 32845)	
30459	Plastic soaker bottle for pH probe	Soaker bottle filled with soaker solution comes with SBE 18; this is spare.
50020	pH sensor O-ring kit	Spares kit includes 1 each of: <ul style="list-style-type: none"> <li>● 231004 Backup ring for LS021 L-seal (end cap to housing seal)</li> <li>● 30072 O-ring, Parker 2-017 N674-70 (XSG connector seal)</li> <li>● 30097 O-ring, Parker 2-111 N674-70 (sensor to end cap seal)</li> <li>● 30806 L-seal, LS021 (end cap to housing seal)</li> </ul>
24023P	pH electrode (prepped for installation, document 67072)	Electrode & electrode guard come with SBE 18; these are spares.
23190C	pH electrode guard	
25001	KCl soaker solution, 500 ml bottle	Soaker solution is pH 4 buffer solution saturated with KCL. When SBE 18 is not in use, place plastic soaker bottle over pH electrode to prevent loss of internal electrolyte & resulting change in sensor performance. Soaker bottle filled with soaker solution comes with SBE 18; this is spare solution.
50046	SBE 18 mount kit for SeaCATs	

50042	SBE 18 mount kit for SBE 9plus	
50045	SBE 18 mount kit for SBE 25/25plus	
50326	SBE 18 mount kit for SBE 32 extension stand with 1-inch diameter frame stock	