

**To Our Customers**

Ref: FESN-2208  
End of Sep. 2022  
Fuji Electric Co., Ltd.

**Fuji Electric Ship Exhaust Gas Cleaning System (EGCS)**  
**Installation Guidance for pH Sensor (water quality meter)**


We would like to express our deepest appreciation to you for your continued support for our ship exhaust gas cleaning systems (EGCS).

Over-tightening the Chelsea Water Quality Meter pH Sensor may cause cracks in the flow chamber. For your safety and exact maintenance, please refer to the installation guidance described in the supplied book titled "Sea Sentry Handbook (Doc No. 2374-100-HB | Issue M)" and install it properly. An excerpt is provided on the next page.




**Reference (flow chamber crack)**

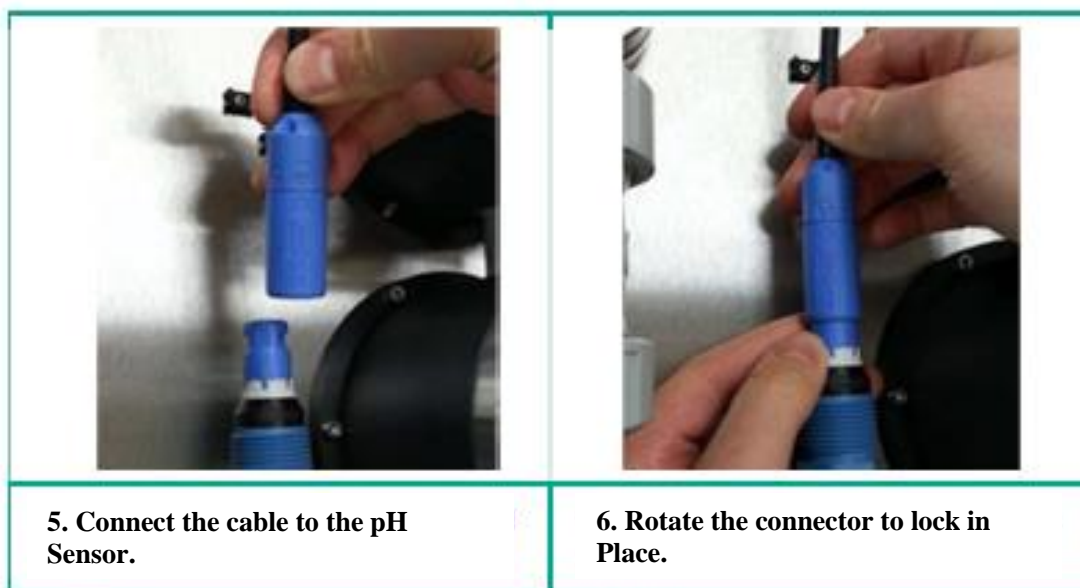


Sea Sentry Handbook 《Doc No. 2374-100-HB | Issue M》

	<p>The pH sensor electrode will be damaged if allowed to dry out in air for More than 30 minutes. Fill the system promptly after installing the Sensor.</p>
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Follow the instructions in Table 5 to fit the pH sensor to the cabinet.

	
<p><b>1. Remove the pH sensor from the Packing box.</b></p>	<p><b>2. Unscrew the cap from the end of The sensor. Caution: hold the sensor Vertically as the cap will be filled with 10ml of pH7 solution to protect the Electrode during shipping.</b></p>
	
<p><b>3. If necessary, remove the old PTFE Tape, then re-apply approx. 5 turns of New PTFE tape to the taper thread Region of the sensor.</b></p>	<p><b>4. Screw the pH sensor into its flow Chamber. Important: the probe must Not be over-tightened, use a 26mm A/F Spanner to tighten to 7 – 3mm limit From the hex shoulder (see Figure 17 And caution statement).</b></p>

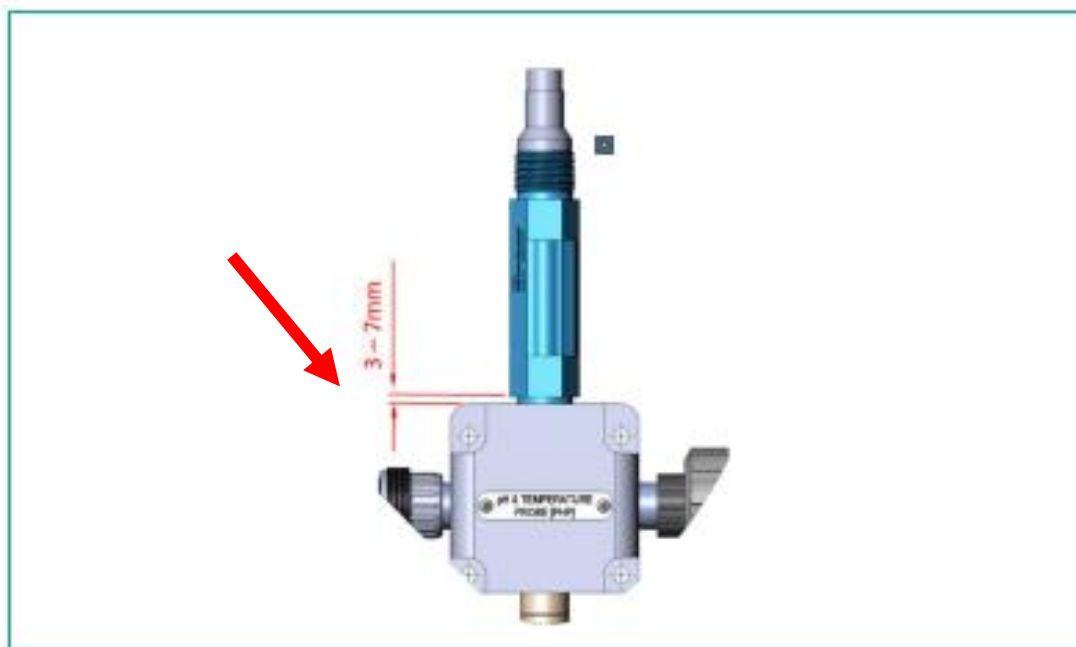


**Table 5: Fitting the pH sensor.**

After fitting the pH sensor, the system must be filled promptly (within 30 minutes) in order To prevent the pH sensor electrode from drying out and being damaged.

Ensure the drain valve is in position 'A' (Table 3) and the vent plug is closed (Figure 3).

Open the flow outlet isolation valve VV4, followed by the inlet isolation valve VV1 (Figure 1).



**Figure 17: Tightening the pH sensor into the flow chamber.**



The pH sensor is sealed into the flow-chamber using a taper thread. Extreme care should be taken not to over-tighten the pH sensor to Avoid cracking the flow-chamber. If in doubt tighten loosely, test for Leaks, then tighten fractionally more if required.