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CSMP – Field Advisory Notice (FAN)

sv² sensor & tight fixture fit

070622SV20028

Identified Issue & Analysis

The system is designed such that the TrakPod fixture should easily allow the sv² sensor to seat all the way onto the fiber optic. If the fixture has a tighter tolerance than normal, then users may find it difficult to place and remove the sv² sensors during pH test procedures. With a tight fixture, sv² sensors may also not seat consistently and as intended, affecting the resulting pH measurements.

Impact to Owners

If the sv² sensor does not seat properly, the extra gap decreases the optical signal and leads to pH readings that are incorrect. A sensor that is elevated in the fixture will return higher pH readings than a sensor that sits all the way against the fiber optic. For example, pH readings may be 0.2 - 0.3 pH units higher than the actual pH when an sv² sensor is elevated by 1 mm. Additionally, pH variability may be amplified between sv² sensors if the sensor placement is not consistent every time. Refer to this [this video](#) and the figures below for examples of appropriate sensor fit.



Figure 1: Fully-seated sv² sensor



Figure 2: Elevated sv² sensor

Procedure

If a mild degree of tightness is observed, then the sv² sensor may simply need a push of the finger during placement to seat properly. If the fit is overly tight and placing the sv² sensors is difficult, then the components may need to be serviced in the field. Please contact support@safesens.com to report tight fixture issues and discuss service options.

Thank you for your continued interest in the SAFE Sens products. Please contact me should you require additional information.


Elaine Neyens
Operations Director
Blood Cell Storage, Inc.
support@safesens.com

24 June 2022
Date

Transmittal & receipt acknowledged by CSMP

Signature

Date