



Application note

Wiper replacement

Version: 20200309

Status: Final

Confidentiality: Not confidential

Date: 09 March 2020

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Document history

The Observator range is in continuous development and so specifications may be subject to change without prior notice. When in doubt about the accuracy of this document, contact the Observator Group.

Reference documents

Type of document / tool	Product type and name (incl. url)
Application note	Wiper replacement
	Pressure calibration
	Shroud installation
	Temperature calibration

Revision history

Date	Amendments	Company, position
2018-03-11	Initial document creation	Observator Australia, Document Controller
2018-04-09	Introduced document control	Observator Australia, Document Controller
2019-07-01	Quality review	Observator Australia, Operation Manager
2019-12-16	Compress document	Observator Australia, Document Controller
2020-01-30	Updated document format	Observator Australia, Document Controller
2020-03-08	Updated wiper replacement section	Observator Australia, Document Controller

Procedure sign-off:

Date	Company, position	Status
2018-04-09	Observator Australia, Document Controller	Finished
2019-12-06	Observator Australia, Managing Director	Approved
2020-03-03	Observator Group, Communication Officer	Approved

Distribution list

Date	Company, position

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1 Wiper replacement

This document is an application note for the replacement of the wiper on the Analite series turbidity probes. This Application note explains how to remove and replace the wiper from the Analite probe as part of its regular maintenance requirements.

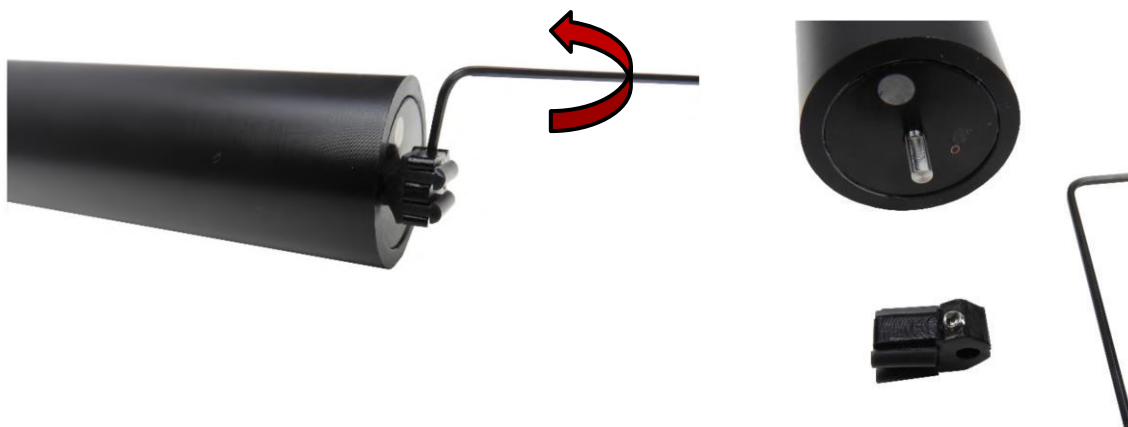
1. The effectiveness of the wiper in maintaining a clean optical surface will eventually be compromised. We recommend periodic inspection of the wiper's silicon pad to determine if the wiper material is deteriorating or if there is an excessive build-up of material from bio-fouling. In addition, as a precaution, we recommend changing the wiper prior to each long-term deployment. The wiper is a consumable item. Wiper packs are available from Observator Instruments or their distributors (Part No. NEP-19-WIPE).



2. It is strongly recommended that the wiper be replaced prior to a new deployment. After a deployment, the wiper pad may dry out and collected material adheres to the probe face. Operating the wiper under such conditions could then damage the internal mechanics. Such damage is not covered under warranty.



3. To change the wiper, loosen the set screw on the old wiper with the 1.5mm hex key provided until the wiper can be removed from the shaft.



4. Place a new wiper on the shaft in the same position as the wiper just removed so that the set screw in the new wiper faces the flat on the probe's wiping shaft. Very gently press the silicon rubber pad of the wiper against the face of the probe and then tighten the set screw. It is crucial that the wiper arm body does not touch the probe face – only the silicon pad should be in contact. A gap of 3mm between the wiper arm body and the probe face is typical when a new wiper has been properly installed.



CAUTION: Do not over tighten the set screw or manually attempt to rotate the wiper arm once set on the shaft. Any attempt to manually rotate the wiper may cause damage to the gearbox and void the warranty.



2 Cleaning the sensor

It is strongly recommended that the probe be thoroughly washed in clean water after deployment and prior to storage. In the field, wash the probe with fresh water and clean it with a soft cloth.

In the office, we recommend cleaning the sensor with isopropyl alcohol (available from grocery stores) and dry the sensor with compressed air.



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