



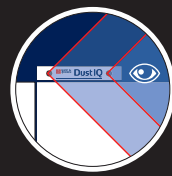
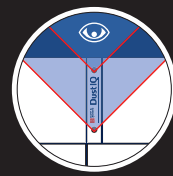
Finish the whole procedure!

It is not possible to restart the procedure once (a part of) the DustIQ has been cleaned!

# DustIQ calibration procedure

## Requirements:

- a uniformly soiled DustIQ with a reported Transmission Loss of at least 5 to 10%
- clear sky / bright sunlight for at least 15 minutes within two hours of local solar noon

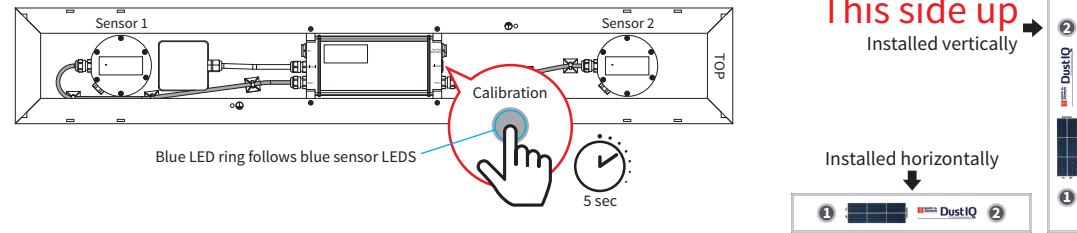


## Important prerequisites:

For an accurate calibration it is necessary to have: the DustIQ in operational state for at least 15 minutes, clean distilled or demineralised water, soap, sponge and a clean and dry cloth. In sunlight, to see a blue sensor LED blink, view it from the area shown within the red lines.

1

At the back of the DustIQ **press and hold** the calibration button for 5 seconds. Release to start calibration.



2



⚠ DustIQ must have a clear view of the sun and sky



Wait for 50 seconds, until the blue sensor LEDs blink steadily. The soiled signals have now been measured.

3

Clean the PV cell and sensor 1, using soap and distilled or demineralised water.



⚠ Clean thoroughly, dry thoroughly

⚠ Do not clean sensor 2

4

Press the calibration button again. The clean sensor 1 signal will now be measured.



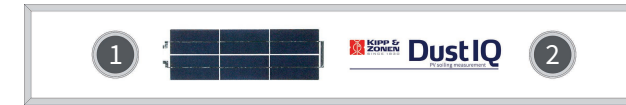
⚠ DustIQ must have a clear view of the sun and sky



Wait for 50 seconds, until the blue sensor LEDs blink steadily.

5

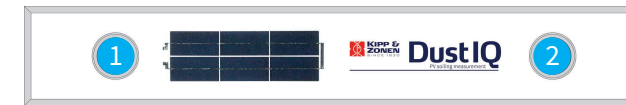
Clean the complete DustIQ, including sensor 2, using soap and distilled or demineralised water.



⚠ Clean DustIQ thoroughly, dry thoroughly

6

Press the calibration button again. Both clean sensor signals will now be measured.



⚠ DustIQ must have a clear view of the sun and sky



Wait for 50 seconds, until the blue sensor LEDs blink steadily.

7

SAVE

Within minutes after finishing the calibration procedure press the calibration button again to save the new calibration settings. The new calibration settings will be stored in the memory of the DustIQ and used immediately.

CANCEL

Anywhere in the procedure, when the calibration button is not pressed within 5 minutes, the new calibration settings will not be saved. The DustIQ will then go back to normal operation using its original calibration settings.

**Note** Cleaning and drying thoroughly is essential for a good calibration result.

**Note** A short burst of rapid LEDs blinks indicate an error and the calibration will be aborted. The LEDs will go off and then follow the normal 1 minute pattern.

For manuals and software please visit [www.kippzonen.com/dustiq](http://www.kippzonen.com/dustiq)

