Operation of Firesting Fiber-Optic Oxygen Meter 2 Channel Software

Date: 2024-09-13
Tags: O2 AE Firesting Software
Category: Protocol
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Goal

In situ O2 measurment using the Equipment - Firesting Fiber-Optic Oxygen Meter 2 Channel

Prerequisites and preparation

Reaction setup

Equipment - Firesting Fiber-Optic Oxygen Meter 2 Channel

Laptop with pyroscience software

Note: work carefully! Handle espacially the glas fiber cables with care!

Not for use in HTE setup

Steps

Step number	Step description
1	Build the desired reaction setup with either the Equipment - NS14 Schlenk tube for sensor cap or the AE-290: Liquid-phasee calibration of Trace Range Robust Oxygen Probe
2	Place the Firesting onto a Kimtech wipe outside the irradiation setup
3	Connect the glas fiber cables / trace robust probe / PT100
4	Start the Laptop and log in (password lab laptop: oxygenevolution)
5	Connect the Firsting with the laptop using an USB cable
6	start: Firesting workbench (?)
7	This window opens: Screenshot-2024-10-09-150309.png
8	To show the graphs: click on graph symbol in the table with channel 1...
9	Check for correct calibration file: Screenshot-2024-10-15-091154.png, click on it, than choose correct calibration file
10	To start logging: press big red button next to Logging not active
11	This window opnes: Screenshot-2024-10-09-150707.png
12	Give appropiate name to sample

13	Choose correct folder (the one in the foto: Screenshot-2024-10-09-150707.png)
14	Press start logging
	To stop measurement:
15	Press big green button, for the appropiate screenshot of the graphs: zoom out completly

Linked experiment

- AE-290: Liquid-phasee calibration of Trace Range Robust Oxygen Probe

Linked resources

Equipment - NS14 Schlenk tube for sensor cap

Equipment - Firesting Fiber-Optic Oxygen Meter 2 Channel (Firesting 1)

Attached files

Screenshot-2024-10-15-091154.png
sha256: de30fac7010f93b518dac39025037d14b306f0327b94829e1c51f5ef85f48eee

Screenshot-2024-10-09-150436.png
sha256: 12dfe687ba2f4b5a6a211be631fab8f59351f11077a80d220a8f40b2ce1757f6

Screenshot-2024-10-09-150410.png
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Screenshot-2024-10-09-150349.png
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Screenshot-2024-10-09-150309.png

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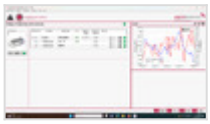

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Screenshot-2024-10-09-150524.png
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Screenshot-2024-10-09-150506.png
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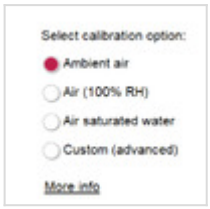

Manual_FSO2-C.pdf
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Manual_Oxygen_Sensors.pdf
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Manual_Optical_Temperature_Sensors.pdf
sha256: 5be2676f3c83f0485c5df38bd0c68648104862b4b44147f72f712621fb53aa3b

Manual_Pyro_Workbench-DataInspector.pdf
sha256: 21614a107dcdc1398052674231d23faa15193c75ab8079154c8e14b7cd6d8889

Unique eLabID: 20240913-495002969f505d49021189bc476d408cb6b12fc1
Link: https://elab.water-splitting.org/database.php?mode=view&id=143