

## ***Interactive comment on “Airborne particulate matter monitoring in Kenya using calibrated low cost sensors” by Francis D. Pope et al.***

**Anonymous Referee #1**

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I think the data presented in this manuscript is important. I also think the author's efforts to get as many insights from the data is very good. However, I have concerns about the calibration methodology. Although the authors themselves point out the concerns, I think the manuscript needs to specify how the OPC works in more detail and speak more about the validity of this calibration. Is a simple linear fit okay? How does one take into consideration the different aerosol size distributions and types at the other locations and wouldn't that influence the calibration dramatically? Is it worthwhile calibrating the OPCs in the urban background site in the first place if you're going to use the OPCs at other sites? What does the literature say about this? I appreciated the discussion on the RH and its impacts on measured PM, but I wonder about other aerosol properties: shape composition that must be mentioned here

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I'd also like to see an image of the OPC if possible. Is it pole mounted etc?

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-327>, 2018.

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