

***Interactive comment on “Technical note:  
Facilitating the use of low-cost methane (CH<sub>4</sub>)  
sensors in flux chambers – calibration, data  
processing, and an open source make-it-yourself  
logger” by David Bastviken et al.***

**Anonymous Referee #1**

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In this paper Bastviken and colleagues present details on a low cost sensor for measuring CH<sub>4</sub> fluxes in chambers. They also describe a low-cost open source logger. There is a growing interest in development and use of low cost sensors for measuring key biogeochemical processes, and this paper describes a useful new sensor to add to the growing list. The paper is focused on calibration and data processing using this new sensor setup.

One thing that I would have liked to have seen was some real word data using the system - that is a demonstration of field based flux measurements. It is under field

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conditions where the utility of the sensor needs to be proved. In saying this, I think the paper as it stands is publishable and will make a useful contribution to the scientific literature. The detailed calibration experiments will be extremely useful for the community working on developing similar systems. look forward to seeing "real-world" data collected by the sensor system in the future.

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Interactive comment on Biogeosciences Discuss., <https://doi.org/10.5194/bg-2019-499>, 2020.

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