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Interactive comment on “A horizontal mobile measuring system for atmospheric quantities” by J. Hübner et al.

J. Hübner et al.

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Dear Mr. Friess,

we are grateful for your comments, made in your role as the Associate Editor, towards enhancing our paper for AMT. We will improve our paper with your comments and linguistic corrections in mind, and want to address some of the individual comments.

Yours sincerely,
Jörg Hübner (First author)

1. 4554.29: *Can you provide an estimate of the maximum climbing angle of the HMMS?*

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Interactive Discussion

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Interactive
Comment

Answer:

We will add a short estimate of the limited climbing ability of the HMMS at this line. The approximate angle is a little less than 10 %, but the steeper the climb, the more stress for the engines, which results in a reduction of the engines' lifetime.

2. *4556.21: You mention a second electrical circuit, but it is not clear what the first circuit is supposed to be. Please clarify.*

Answer:

We will clarify this in the paper at the paragraph on page 4556-lines14 to 19! The first circuit is the 24 VDC for the engines and the heating of the ozone reaction chamber, and the second circuit is the 12 VDC for all other components and sensors.

3. *4557.11: If possible, please specify the power consumption of the BOX PC.*

Answer:

We have added the power consumption of the BOX PC, which is approximately 1.5 A.

4. *4558.23: Here you mention a reduction in time constant after modification of your sensor, but at this point it is not yet clear how you determined it. Here you should refer to section 3.1.*

Answer:

Thank you! You're definitely right and we have added the reference.

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