Response to referee comments on: Measuring electrical properties of the lower troposphere using enhanced meteorological radiosondes (gi-2021-26)

I am most grateful to both reviewers for their careful reading of the manuscript and the thoughtful comments made. I have made changes in response to these, which are marked on the manuscript in red. I have also added some very minor clarifications and corrections of my own (lines 37-38, footnotes 10 and 11).

Response to referee 1
Thank you for the very positive comments and appreciation of the manuscript.

Response to referee 2
Thank you for the careful consideration of the manuscript. I greatly appreciate that it is concluded to be suitable for the journal.

...an additional information about the worst case parameters would be interesting: lowest operational temperatures, maximum tested shock levels, power consumption per hour of operation and maximum duration with the used batteries.

Sentences have been added at Line 311 to mention measured internal temperature, observed acceleration and battery life.

Line 151: , implementing bespoke analogue signal conditioning circuitry is still necessary.
I was wondering if you could find a different expression for the word “bespoke”. (I as a none-English native speaker had to ask my wife, fortunately an English language teacher, what the meaning might be. Others might have similar problems.)
This word is no longer used. Where needed, it has been changed to “customised”, and “for a chosen application”, which I hope is more accessible.

It would be helpful for the reader if all DOI references would be presented in the same complete web-link form, starting with https://doi.org/ While this is partly done, it is missing on lines 753, 757, 793, 795, 803, 813, 817, 825, 827, 829, 835, 881, 884 and 898.

These have been corrected, and many other links are now given where possible.

The link on line 921 is outdated. The referenced Vaisala document can now be found via https://www.vaisala.com/sites/default/files/documents/WEA-MET-RS41-Datasheet-B211321EN.pdf
Thank you - this has been changed.