Author's Reply to the Review Report (Reviewer 2)

This work has merit and addresses an important topic. A few comments/questions are as follows:

Comment 1: lines 9-11:The authors state in the abstract,

"Apart from occurring temperature damage, the effect of surrounding fibres potentially pushing away the components under the amount of pressure of the manufacturing process, as well as the potential 1 of shorts due to conductive fibers are investigated and suitable solutions to prevent this are evaluated."

It is recommended the authors add additional comments in the Discussion (Section 4) on the effect of fibers potentially pushing away the components during the manufacturing process. Is there any evidence that may fibers push around component may have occurred?

Reply to 1: That is a very good point, that explanation got lost in the process. A paragraph (marked with \hl{}) was added to Section 4 with an explanation of the attempt to investigate the reason behind the malfunction of unprotected nodes. Unfortunately, this investigation was done with a previous version of the sensor node with a different design (same components though) and the image quality is not that good due to the surrounding fibers so this image was not added to the text, but a longer explanation instead.

Comment 2: Figure 2: Define or add a description of "HF" and "EEPROM" on figure or in figure description caption.

Reply to 2: Changed HF to Reader field and EEPROM to Electrically erasable memory to increase figure comprehensibility even without description, but at the same time keep the memory type name in so it is clear that there are two different memory architectures inside these components.

Comment 3: Figure 4: The inset dotted line is obstructing a portion of the text including x-axis (1000) and "Measurement point". It is recommended to revise figure.

Reply to 3: The figure has been revised so that the line is behind the text objects now.

Comment 4: lines 128 to 140: For the prepregs used in Table 2, what are the fiber orientations? This is recommended to be included in either table or the text. Also, although used for aerospace, why were these fiber orientations chosen? What are fiber diameters? It is recommended to comment on these aspects.

Reply to 4: The listed prepregs in Table 2 are available with woven, multi-axial or unidirectional fiber orientations as well as a selection of fiber types from HEXCEL. The chosen material we used for our embedding experiments is HEXPLY 8552 unidirectionally reinforced with AS4 carbon fibers (as 12K tow) with a filament diameter of 7.1 microns. I added the information separately, explaining the availability of different fiber direction choices in lines 132/133 and explaining our chosen prepreg reinforcement further down the text in line 138/139.

Comment 5: Section 4. Discussion,. It is recommended to split concluding statements into a "Conclusions" section

Reply to 5: Added a short Conclusions section with the most important statements in condensed form at the end.