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# FOS Update

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22 May 2024

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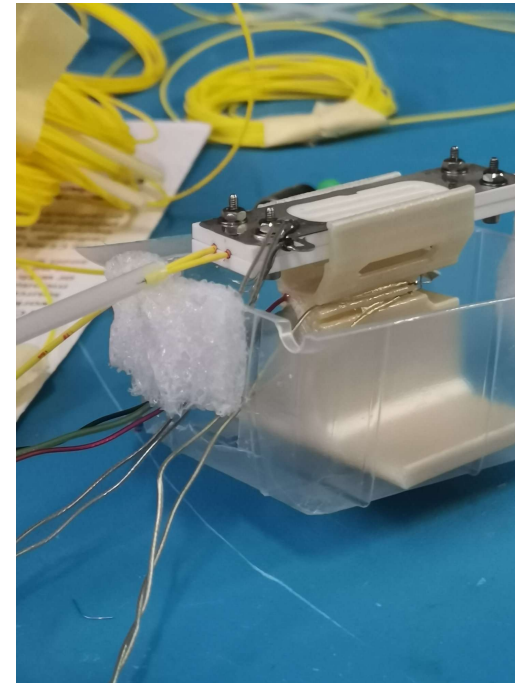
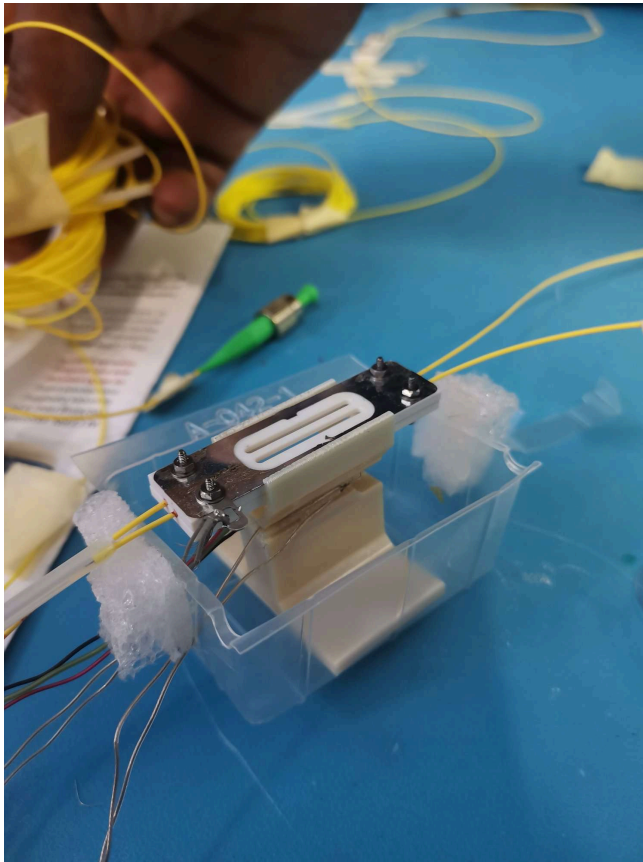
# Outline

- Conducted RH test on two packages at  $-20^{\circ}\text{C}$  and  $25^{\circ}\text{C}$  with 19 data points
- Conducted Temperature test on two packages with constant RH
- QA/QC check done on the sensors where the observed variables are in agreement with the sacrificial sensors inside the environmental chamber
- First FOS package delivered to George's office this morning.
  - Includes:
    - FOS package mounted on bracket → 2 FBG and 1 LPG sensor
    - 1 HIH sensor with 6 m triplet PEEK wire
    - 1 PT10K sensor with 6 m doublet PEEK wire

# FOS package

Packaged the sensors such:

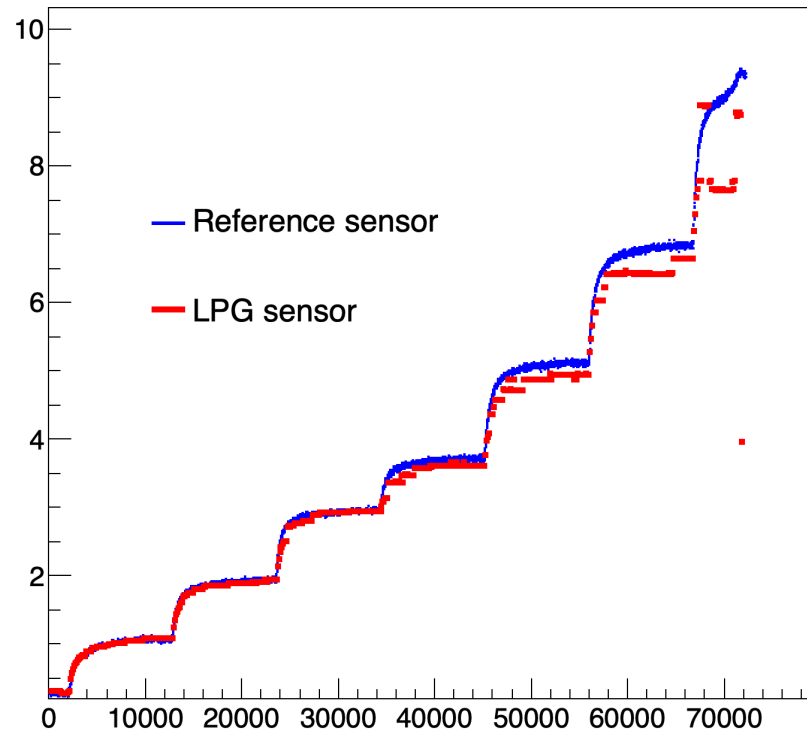
- They do not break at the edge of the neo-ceram while they are in transit.
- Remain stationary inside the box
- PEEK wires do not move the FOS package.



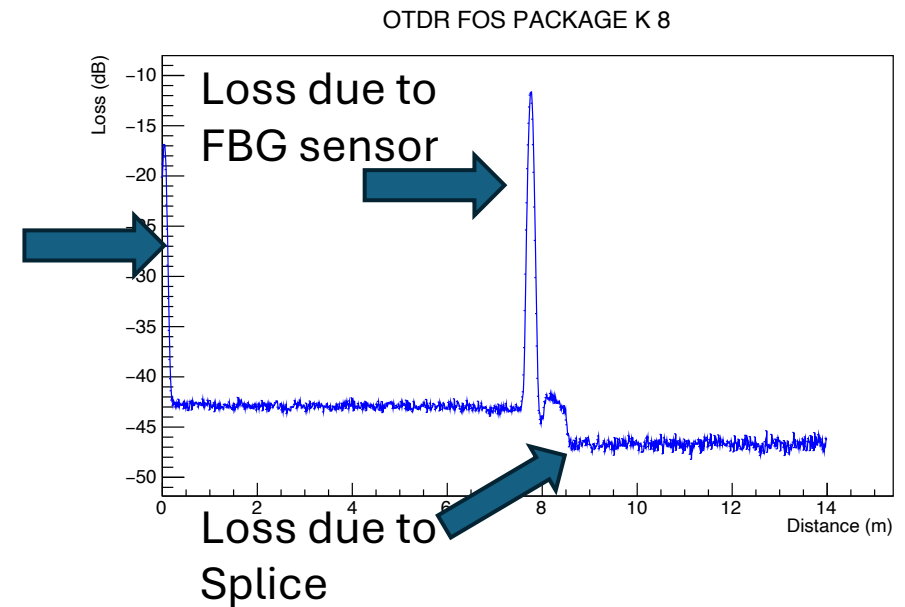
# QA/QC

- Did QA/QC which includes comparison between FOS readout and HIH sensor inside the environmental chamber
- Also did QA/QC using OTDR to identify losses along length of fibre

RH Comparison



Loss due to pigtail



# Package delivered

