

Hardware Description

The Habrobracon (wasp) Experiment Package consists of four modules which are screwed on the part of the package facing the radiation source. There is a central depression in each module where the wasp is placed. A screen is fitted over the wasp and capped. A thermistor to record the local temperature is located centrally between the modules. Five packages were flown; four exposed to varying doses of radiation from the ^{85}Sr source, and one placed in the shielded portion of the spacecraft. A secondary equilibrium shield is set in place in front of the package to minimize absorption and scattering of the gamma rays from the on-board radiation source. The package placed closest to the radiation source has a concave face for placement of the wasp modules to ensure adherence to the isodose requirements. The package placed in the shielded portion of the spacecraft holds more modules so that more wasps could be contained, some of which were irradiated before flight.

Radiation Dosimeters: Each module carries three Toshiba glass rod dosimeters. Additional dosimetry can be measured by LiF powder in tubes held in front of and behind the modules.

Specifications

Dimensions: Unknown

Weight: Unknown

Power: None

Data Acquisition

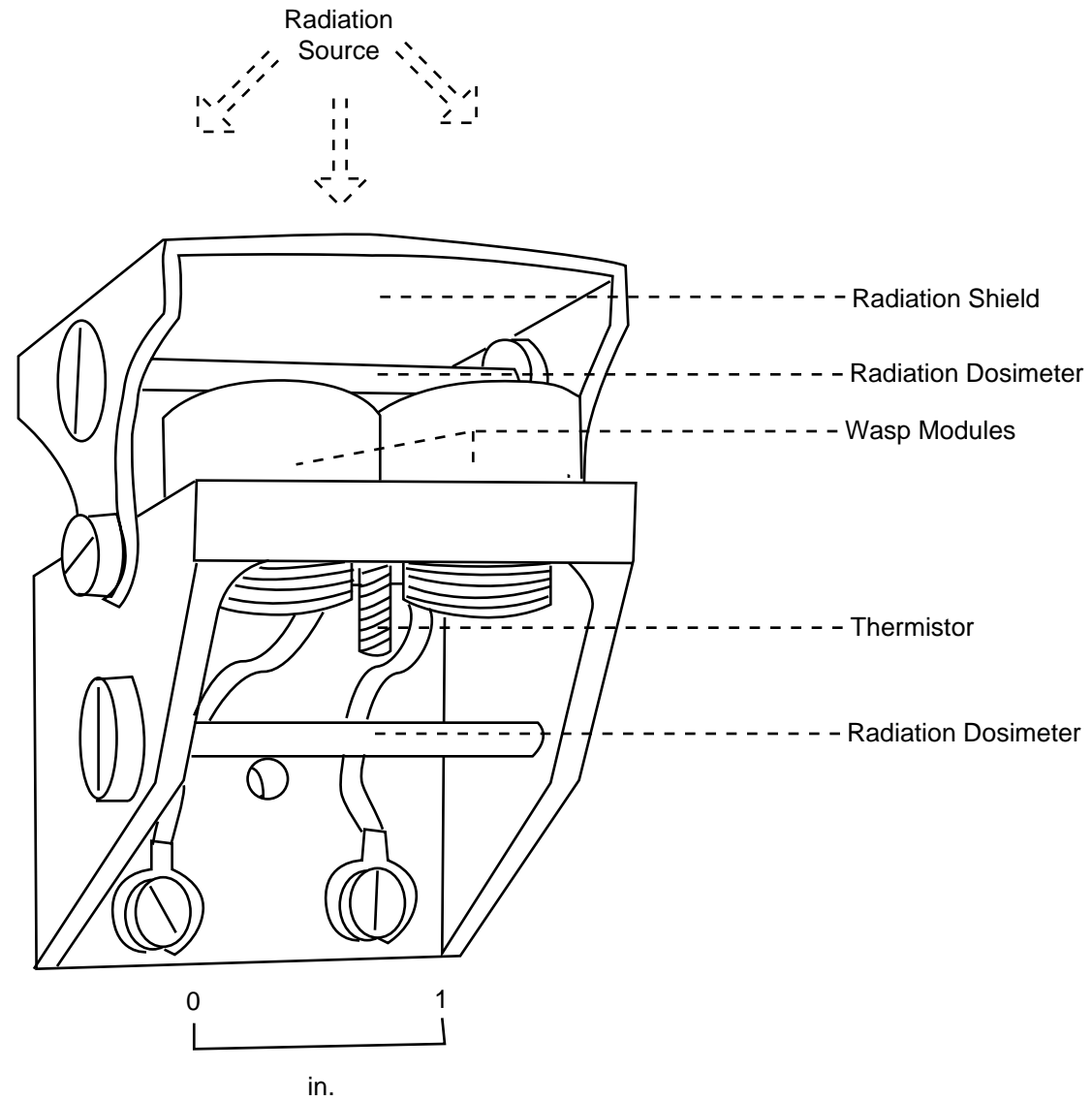
Temperature and radiation data

Related Ground-Based Hardware

None

Publications

- von Borstel, R.C. et al.: Mutational Response of Harbrobracon in the Biosatellite Experiment. *Bioscience*. Vol. 18 (No. 106): 598-601, December 1969.
- *Biosatellite Project Historical Summary Report*. NASA-Ames Research Center. J.W. Dyer, ed. December 1969.



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