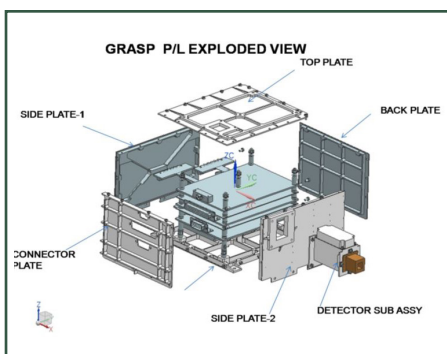


Radiation Spectrometer

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed a Radiation Spectrometer to study the particle environment of the orbit in which the detector is placed by making in-situ measurements of the same.



Salient Features

- ✦ The instrument is capable of carrying out spectroscopy and particle identification.
- ✦ A compact instrument to study in-situ particle environment and differentiate particle species.

Major Specifications

- ✦ E- dE technique used to carry out particle identification.
- ✦ Thin Si wafer as dE detector.
- ✦ Thick CsI(Tl) scintillator crystal as E detector.
- ✦ Energy Range of particles which can be measured:
 - Electrons : 0.5 - 10 MeV range.
 - Protons : 5 - 85 MeV range.
 - Alphas : 18 - 85 MeV range.
- ✦ Spectroscopic capabilities up to 40000 counts per sec without pileup.
- ✦ Can be tuned for higher count rate with minor design modifications.

Technology Transfer

URSC/ISRO offers to transfer this technology of a Radiation Spectrometer developed by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

Technology Transfer & Industry Coordination Division (TTID),
Programme Planning and Evaluation Group (PPEG),

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