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The Double Star magnetic field investigation: the instrument design, performance and data products

C. Carr (1) and the FGM Team

(1) The Blackett Laboratory, Imperial College London, SW7 2BW U.K. (c.m.carr@imperial.ac.uk)

The accurate measurement of the magnetic field along the orbits of the two Double Star spacecraft is a primary objective of the mission. The Double Star Magnetic Field Investigation (the FGM instrument) determines the magnetic field vector in the range DC to 10 Hz, with the highest achievable accuracy and over as much of the orbit-track as possible. The instrument must perform continuously and reliably, which requires an inherent ruggedness and fault-tolerance. We report on the design of the magnetometer instrument, its performance in-flight, and the data products routinely produced and distributed to the Double Star scientific community. Additionally, we summarise the scientific aims of the FGM investigator team, and the progress made in the first year of operations.