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The Electron Proton Telescope for Solar Orbiter

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Solar Orbiter is one of three M-class missions under study in ESA's Cosmic Vision 2015-2025 program. One of it's main goals is to understand the connection between Sun and heliosphere; i.e. the acceleration and propagation of solar energetic particles. Onboard, the Energetic Particle Detector (EPD) will measure the composition, time history and distribution functions of suprathermal and energetic particles. The EPD consists of five separate sensors. One of them is the Electron Proton Telescope (EPT), which is designed to measure electrons within the energy range from 20 keV to 600 keV and protons from 20 keV to 6 MeV. Low energy electrons and nucleons stopping in the first detector are distinguished by using the foil/magnet-technique. In this contribution the instrument design and its modeled performance will be presented.