

NEWSPACE MARKET · COMPANY PROFILE



National Physical Laboratory (NPL)

United Kingdom · founded 1900 · npl.co.uk

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as of 20 August 2026



National Physical Laboratory (NPL)

The National Physical Laboratory (NPL) is the United Kingdom's national measurement institute, founded in 1900 and located in Teddington, southwest London. NPL maintains the UK's primary measurement standards and provides measurement traceability to industry, academia, and government. In the space domain, NPL is particularly important for its work on timing and frequency standards. The laboratory maintains atomic clocks that contribute to UTC (Coordinated Universal Time) and operates timing infrastructure that supports satellite navigation systems including GPS, Galileo, and GLONASS. Precise timing is fundamental to GNSS accuracy and satellite communications synchronization. NPL also provides calibration and test services for satellite instruments, materials testing, and contributes to international measurement standards that underpin space system performance. The laboratory has been involved in verifying satellite communication systems, optical frequency standards for next-generation GNSS, and quantum technology programs with space applications. As a government-owned institution operated by the Department for Science, Innovation and Technology, NPL works in partnership with universities, space agencies including ESA, and commercial space companies to advance measurement science for space applications.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Calibration Services NPL offers comprehensive, high-quality calibration services directly traceable to internationally recognised primary measurement standards.	Development of Measurement Instruments and Sensors NPL develops highly-accurate measurement instruments, sensors, and artefacts tailored to meet unique customer requirements.
Expert Guidance and Consultancy NPL provides expert guidance and consultancy to industry, offering impartial and independent advice on measurement challenges and new technologies.	Measurement and Calibration Training NPL provides training in measurement and calibration to develop new skills, enhance existing practices, and upskill for new technologies.
Testing and Measurement Standards Services NPL provides services for testing and measurement standards to improve quality, accuracy, reliability, and compliance across industries.	

Product catalogue



NATIONAL PHYSICAL LABORATORY (NPL)
NPL Space Metrology and Calibration Services

UK National Physical Laboratory provides precision metrology and calibration services for satellite instrument validation and Earth observation calibration.

Services	Precision metrology, sensor calibration
Applications	Satellite instrument validation, E0 calibration
Country	United Kingdom

price on request

Contact National Physical Laboratory (NPL)

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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