

For Sale:

HP 5071A Primary Time and Frequency Standard

This Cesium Beam "Atomic Clock" is in pristine condition and fully operational. Extensive manufacturer performance tests have been conducted on this Standard.

Atomic Clocks are one of the first truly Quantum Technologies!

Atomic Clocks work through the properties of Quantum Physics!

An Atomic Clock of the Cesium type is an intrinsic primary standard of the Time and Frequency domains.

Uses for this extremely precise and stable primary standard of reference in time and frequency measurements are:

Radio Astronomy, Astrophysics, Gravitational Physics, Satellite Communications and Navigation, Metrology Laboratories (Precise Measurement and Calibrations of Time and Frequency instruments and devices), Experiments in Quantum mechanics, Quantum physics, Quantum computing, and Quantum communications, Deep space navigation and communication, Aerospace and Aviation Metrology, Particle Physics Metrology, Advanced Medical Metrology, All aspects of precise timing mechanisms, Quantum computing systems, Security and remote sensing instrumentation, Coordinated Universal Time Traceability (globally), Precise Seismic Measurements, and Cell Phone Network Timing as well as Internet timing. For anyone working in the fields of Electro-Science, Electro-Physics, Radio-Science, and Radio-Physics, including serious Ham Radio Operators

This same model of Atomic Clock is currently being utilized at the U.S. Naval Observatory, The National Institute of Standards and Technology, The National Physical Laboratory in the UK, The U.S. Navy, The U.S. Air Force, The U.S. Army, The U.S. Marines, U.S. Space Force, NASA, Jet Propulsion Laboratory, U.S. Department of Defense, and all other U.S. Government Installations across the United States and around the Globe and their Metrology Laboratories

Full Operation and Performance Verification Data has been measured and collected via the RS232 Serial Port showing the Log Status of 42 entries-per-record of this Cs0627 Primary Reference Standard from July 12, 2023 to December 1, 2023 and from November 1, 2024 to December 31, 2024

All of this reported serial data is stored in a binary COMFILE-HP5071A-CS0627 file folder and can be provided in the form of 203 Text File Records in a continuous, chronological, and sequential data format. The size of this complied text data file is 148 KB. Printed form of all of this data has also been printed out and placed in three protective 3-hole binders. The time span for all of this collected Performance Verification Data is eight (8) months

Price: \$42,550.00 (Pickup Only in Wichita, Kansas)