

## New Options improve Pendulum Instrument's GPS-12 Portable Frequency Standard family

**Stockholm June 25, 2009.** Pendulum Instruments, a company of the Orolia Group (NYSE Alternext Paris – FR0010501015 – ALORO), introduces *four* new options to improve and extend the company's GPS-12 Portable Frequency Standard family. In 2006, Pendulum Instruments released GPS-12R; a portable GPS controlled rubidium Frequency Standard with battery backup power. The GPS-12R supplies a variety of standard frequencies for general metrology (1, 5 and 10 MHz), base station test (13 MHz) and telecom (E1/T1 clock/data). Unlike non-battery powered Frequency Standards, the GPS-12R maintains an ultra-high accuracy, when moved to test objects inside a building or facility area. Its zero warm-up time even after long transportation, makes it very suitable for telecom and general calibration field use. The GPS-12R is also suitable as an ultra-stable in-house frequency standard for metrology, research labs and test systems.

Now, the GPS-12 family has been extended with:

- Two new oscillator options; OCXO and High Stability Rubidium (complements the existing standard Rubidium oscillator)
- External disciplining option (for letting a Cesium standard control the GPS-12R)
- Control and Monitoring software

The low-cost OCXO option (*Model GPS-12*), broadens the price and performance spectrum of the GPS-12 family. The new GPS-12 is a high performance unit in its segment.

The High Stability Rubidium (*Option HS*) allows even higher stability of the GPS-12R, and is very suitable for applications where good phase-noise performance is required, such as in national metrology institutes, military and aerospace companies and oscillator manufacturers.

The external 1-pps disciplining input option (*Option 79/01*) is intended for use for customers who has a very stable 1-pps source, e.g. from a Cesium standard or a Hydrogen Maser, and/or is located in places with bad GPS reception. The benefit is that you can lock the GPS-12(R) to Cesium accuracy on the bench, and at anytime disconnect from Cesium input and power supply, and move the Cesium stability to a new location

The Control and Monitoring software (*GPS12-Monitor*) enables the user to read all display info and status, and also to control all front panel settings remotely. The software communicates with GPS-12(R) over the USB bus, and runs on modern MS Windows versions.

Instruments including these options are available for deliveries in August, 2009.

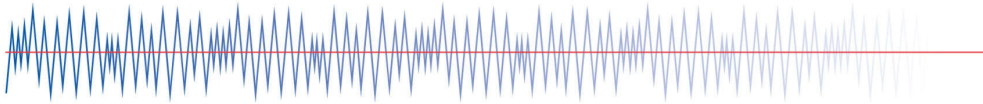
For more information, please contact [info@pendulum.se](mailto:info@pendulum.se) or visit [www.pendulum-instruments.com](http://www.pendulum-instruments.com).

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### About Pendulum Instruments

Pendulum Instruments, a company of the Orolia Group, is the world's expert in time and frequency, calibration, measurement and analysis, with over 50 years of experience in test and measurement instrumentation. An industry leader serving the electronics, communications, metrology and military markets with a product portfolio of frequency counters, frequency standards and distribution systems, synchronization products, and wireless test equipment. A global company headquartered in Stockholm, Sweden with offices and subsidiaries in China, Russia, USA and Poland. Pendulum Instruments serves customers in over 100 countries. Information about Pendulum Instruments is on the web at [www.pendulum-instruments.com](http://www.pendulum-instruments.com)



## About Orolia

Orolia is a high-technology group specialized in precise timing, positioning and synchronization. Orolia provides high-precision electronics equipments that help determine the 'where and when' of people, objects or events in large and growing markets such as Defense & Security, Space & Navigation and Telecom & Broadcasting. High-precision timing, positioning and synchronization solutions are vital for satellites navigation systems, space exploration and military operations. They are also required for day life applications in public safety with synchronizing call taking, dispatching and operations between police, fire, and Emergency Medical Services, or in telecommunications for wireless telecom networks or Digital Terrestrial Broadcasting or mobile TV. In addition, the measurement and analysis of time and frequency signals is critical to organizations as diverse as telecom operators, metrology, laboratories, R&D centers, or armies all around the world. The Orolia group deploys its systems worldwide through four companies: Pendulum Instruments, Spectracom, SpectraTime and T4Science. The group has committed to an organic growth strategy boosted by acquisitions. Orolia's headquarters are located in Les Ulis, (France). The company also has main offices in Neuchâtel (Switzerland), Stockholm (Sweden), and Rochester (New York). [www.orolia.com](http://www.orolia.com).