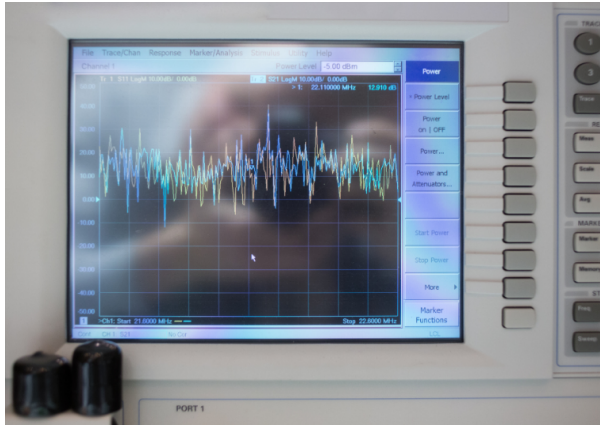


Time and Frequency Calibration



What is Time and Frequency Calibration?

Electrical and low frequency calibration ensures the accuracy of measurement instruments used in these areas. At [Applus+ Laboratories](#), we offer both [on-site](#) and in-laboratory [calibration services](#), complying with ISO 17025, ensuring traceability and international compliance. Our services ensure that instruments provide accurate and reliable measurements, essential for industrial, research and quality applications.

Time and Frequency Measurement Units

We calibrate the following quantities and fields of measurement to guarantee the accuracy and reliability of the instruments:

- **Frequency:** Frequency measurement and calibration in electronic and telecommunications equipment.
- **Time Interval:** Calibration of stopwatches and other devices that measure time intervals.
- **Period:** Measurement of the period of periodic signals in various test and measurement devices.

Most Common Equipment for Time and Frequency Calibration

At Applus+ Laboratories, we offer time and frequency instrument calibration, essential for precise and controlled applications.

- **Tachometers:** They measure the rotational speed of an axis or disc, used in engines and industrial machinery. We ensure their accuracy for critical applications.

- **Chronometers:** Instruments that measure time intervals with high precision, used in scientific studies and industrial applications.
- **Frequency meters:** Devices that measure the frequency of a periodic signal, essential in the calibration of electronic and telecommunications equipment.
- **Signal and Function Generators:** They produce test signals to calibrate other time and frequency devices, ensuring accuracy in measurements.
- **Universal Counters:** Instruments that count events in a time interval, used in research and technological development.

How To Certify Time and Frequency Instruments

To certify measuring instruments in these areas, follow these steps:

1. **Select an Accredited Laboratory:** Choose Applus+ Laboratories, accredited to ISO 17025.
2. **Send Instruments for Calibration:** Instruments can be sent to our laboratory or our experts can perform on-site calibration.
3. **Calibration Process:** We use traceable reference standards to test and adjust instruments, ensuring that your measurements are aligned with recognized benchmarks.
4. **Receive Calibration Certificate:** A detailed calibration certificate is issued, confirming that the instrument meets the required standards.

Benefits of Time and Frequency Calibration

Calibrating these instruments offers numerous benefits:

- **Improved Accuracy:** Ensures accurate measurements for critical processes.
- **Regulatory Compliance:** Meets stringent ISO 17025 standards.
- **Reliability:** Increases the reliability of measurement data.
- **Traceability:** Provides documented traceability to national and international standards.
- **Cost Efficiency:** Prevents costly errors and penalties for non-compliance.

Why Choose Applus+ Laboratories for Time and Frequency Calibration?

Applus+ Laboratories offers several advantages for the calibration of these instruments:

- **Accredited Experience:** We are accredited by ENAC according to ISO 17025, guaranteeing high standards of accuracy and reliability.
- **Comprehensive Services:** Our calibration services cover a wide range of instruments and measurement variables.



- **Advanced Equipment:** We use state-of-the-art equipment for accurate calibration.
- **Experienced Professionals:** Highly trained personnel with extensive experience in electrical and frequency measurements.
- **Customized Solutions:** Services tailored to the specific needs of each customer.
- **Quality Assurance:** Rigorous quality controls and traceability in all calibration processes.