INSTRON®

The difference is measurable®

BLUEHILL UNIVERSAL: HIGH-TEMPERATURE ADD-ON

For Elevated Temperature Furnace Applications



SIMPLIFY HIGH-TEMPERATURE TESTING WHILE INCREASING THROUGHPUT

High-temperature tensile testing requires more than accurate force and strain measurements. Standards such as ASTM E21 and ISO 6892-2 require precise temperature control, continuous monitoring, documented soak periods, and complete test records to ensure valid results.

Traditionally, furnace temperature data and material performance data have been collected in separate systems. This can create additional work during analysis and reporting, requiring users to manually reconcile data from multiple sources while maintaining traceability and compliance.

Bluehill® Universal software's new furnace testing add-on streamlines high-temperature testing by integrating furnace control, temperature monitoring, and mechanical test data within a single software environment. From specimen heat-up through final test completion, critical test information is captured together in one unified process.

BLUEHILL UNIVERSAL SOFTWARE ENABLES HIGH-TEMPERATURE TESTING THAT DELIVERS:

- Integrated capture of temperature and material performance data
- Furnace-specific controls for target temperature, soak time, and allowable temperature overshoot
- Continuous monitoring and recording of specimen temperature throughout the heating and soak phases
- Integrated overshoot tracking with high-temperature testing procedures and reporting requirements
- Simplified export of complete temperature data for analysis and documentation
- Support for multi-furnace configurations to increase laboratory throughput
- Simultaneous specimen heating and soaking while another specimen is tested
- Reduced operator intervention and improved testing efficiency

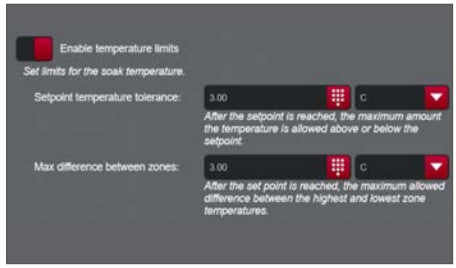
With temperature control, data integrity, and workflow efficiency managed from a single platform, laboratories can confidently perform high-temperature tensile tests while maximizing utilization of their testing systems.

CONFIGURABLE FURNACE SETTINGS



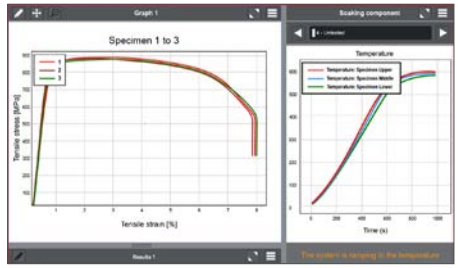
Record Soak Data to File

All thermocouple temperature data is logged and exported through Bluehill Universal software.



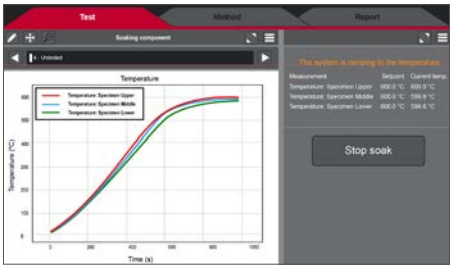
Enable Temperature Limits

Bluehill Universal software will notify the operator when any temperature overshoot occurs during soaking and testing phases.



Separate Soak Controllers

Allows for temperature soaking and recording for furnaces outside of the test space.



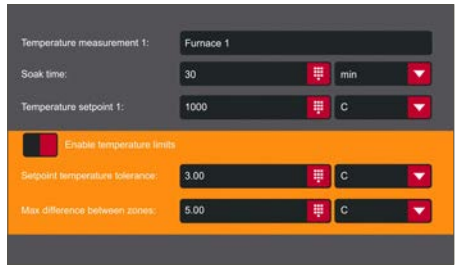
Show on Graph

Enables a live recording of the specimen thermocouples on the temperature chart.



Check Limits

User-configurable setting to enable or disable temperature overshoot warning.



Max Difference Between Zones

A user-configurable parameter is set to determine how much variation between zones is allowed. This setting is only triggered when the specimen reaches the target setpoint.

COMPATIBLE PRODUCTS

Floor Model Universal Testing Systems	5982, 5984, 5985, 68FM-100, 68FM-300
Three-Zone Temperature Furnace	3119-160 (Type K), CP125635 (Type R/S)
Temperature Control System	3119-960 (Type K), 3119-962 (Type R/S)

Note: Consult the factory for additional application requirements.

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