

5900 EXTEND™ Upgrades | For Existing Instron® Testing Systems

EXTEND the system life and capability of your Instron® testing system by upgrading the control system with Instron's most advanced 5900 electronics and Bluehill® Universal software. A 5900 EXTEND upgrade allows you to keep your existing load frame, grips, and load cells while replacing the older electronics and recording device with a new digital controller and signal conditioner, along with a new Productivity Panel and new advanced testing software. The result? A superior system at a fraction of the cost of a new machine!

Instron has experience in upgrading more than 5,000 testing systems over the years. EXTEND packages are routinely added to 30-year old electromechanical load frames, resulting in systems that are more productive and have renewed reliability.

EXTEND Package

- Removal of old controls, recorders, and other older components
- Installation of Instron's advanced 5900 electronics
- New 5900 Productivity Panel with Live Display, Soft Keys, and Specimen Protect for enhanced usability and productivity
- Factory direct hardware and software support of your new software and controls
- Full 12-month warranty on new control electronics and software

Productivity Panel

Exclusive to Instron 5900 testing systems, the all-new Productivity Panel includes a combination of action keys and live displays to facilitate testing and improve efficiency. The panel is mounted to the frame and allows the operator to start, stop, reset gauge length, adjust the crosshead with both a fine and coarse adjustment, and view a series of configurable live displays that include standard measurements, and real-time results, including peak, modulus, and yield. The operator can initiate a variety of actions with 4 user-defined soft keys.



In addition, the 5900 Series offers Specimen Protect, a feature that prevents any load from being applied to the specimen outside a set threshold – protecting your valuable specimens and test fixtures from damage.



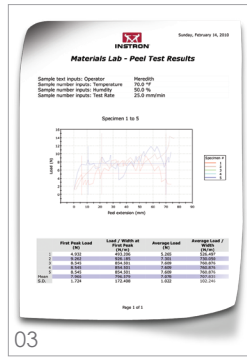
5900 EXTEND Upgrade on Instron 4505 (Power Module Box is not necessary for all system upgrades)



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01. Complete 5900 Extend upgrades usually completed in one day at your site. Retain your load cells and accessories.
02. Bluehill Universal Software with Dashboard – Load specimen and start test when ready. Real-time graphs, results, and statistics are available for viewing.
03. Export data; print or save your customized report when testing is complete.
04. The 5900 Digital Signal Processing (DSP) unit delivers high speed, closed-loop control, sensor conditioning, high-speed data acquisition, diagnostic displays, and provides easy connection for all transducers, computer and service ports.

Bluehill Universal Software

Bluehill Universal is our newest static testing software, built from the ground-up for touch interaction. The new portrait layout, with its meticulously crafted visual design, gives the most comprehensive view of the test workspace on the Operator Dashboard, a stunning large-format touch monitor with an integrated controller. Bluehill Universal's large touchpoints and intuitive gestures make the user experience simpler and smarter. Bluehill Universal boasts many advanced capabilities, such as pre-loaded test methods, QuickTest in seconds, and enhanced data exporting. Bluehill Universal meets the demands of any level of user from educators and test technicians to quality engineers and laboratory managers.

Bluehill Universal Software also includes the following:

- Conversion program for older Instron Bluehill test methods and data
- Replay option re-analyzes different sample files with a new test method
- Link specific transducers with test methods to ensure correct devices are used
- Transducer verification due dates remind users of upcoming required service
- Choice input lists with auto linking to other required input values, e.g. test rate
- Copy and paste graphs directly to Microsoft Word, Excel, and more
- Customized Report output in Microsoft Word, PDF or HTML formats
- Modify or add new calculations at any time with live update of all results and graphs

5900 Series Electronics

- Data collection rates of up to 2.5 kHz points per second
- Intelligent data acquisition based on time, load, and extension changes
- Load and position measurement channel standard
- Up to eleven additional channels can be added as options
- Extension, Load, Stress, and Strain Rate test control via Bluehill® Universal Software
- Automatic recognition and calibration of system transducers
- Analog Output & Digital Input/Output Board option
- Compatible with modern Instron accessories, including video and automatic extensometers

Protect your Instron® Investment with a Genuine EXTEND™ Retrofit

Your Instron system has provided years of accuracy, reliability, and service. The original parts used on an Instron tester were designed and built to work together within their respective systems to provide optimum performance, safety, and system integrity.

Protect your original Instron investment with a genuine Instron retrofit and OEM components. It's the only way to guarantee continued performance, safety, and efficiency. Maintaining the effectiveness of system features requires the use of appropriate parts and components designed and tested with the same care and attention as the testing systems they go into. Instron retrofits are designed specifically for each respective frame, so you'll get the most uptime and maximum performance.

Unlike third-party substitutes, replacement parts from Instron meet all the specifications and specific tolerances to keep your system running as intended. Instron retrofits include new wiring harnesses, brackets, cables designed for easy, clean installation, and no compromise on safety – we do not resort to impromptu snipping, ripping, and soldering on the customer machine.

How Does an Instron Retrofit Protect You and Your Investment?

Reliability

Instron systems are built to withstand thousands of hours of testing and are relied upon to produce highly accurate and repeatable results - with little to no downtime. A system's downtime leads to higher expenses, lost revenue, and a loss of valuable testing time. Your investment in an Instron retrofit gives you the peace of mind that these problems will be avoided.

Safety

The risks to employee safety and liability for injury are very real with non-Instron retrofits. With inherent high-load capacities and voltages, bypassing built-in safety features could cost dearly in system damage, or worse, the health and well-being of operators. Instron retrofits and components are designed to retain or enhance safety to protect operators from harm and reduce related liability. To gamble on anything less is taking a serious risk with very little upside in cost or time.

What are the Other Advantages?

- Designed, tested, and updated by Instron - the original designer and manufacturer
- Designed specifically for your Instron frame's unique engineering and operating specifications
- Uses genuine Instron specified, tested, and approved replacement parts
- Difficult to support, or "at risk" parts and components are replaced to ensure long-term reliability
- Supported by the latest Instron software for control and data analysis
- Guaranteed compatibility with existing Instron load cells and transducers
- Full compliance with safety and EMC standards applied to new Instron systems
- User documentation specific to system retrofit
- Full technical support for the entire system after installation - eliminates vendor finger-pointing
- Avoids risks of 3rd party "one-of-a-kind" improvised solutions that can affect original operating performance and compromise safety

www.instron.com



Worldwide Headquarters
825 University Ave, Norwood, MA 02062-2643, USA
Tel: +1 800 564 8378 or +1 781 575 5000

European Headquarters
Coronation Road, High Wycombe, Bucks HP12 3SY, UK
Tel: +44 1494 464646

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