

## SPECIMEN MEASUREMENT DEVICES

2850 Series

Instron® testing systems provide an accurate measurement of force during a test, but in order to produce accurate stress results, you must measure the specimen and get the dimensional data into Bluehill® Universal Software. While digital instruments, such as micrometers, can provide accurate measurements, using them properly takes time and requires the operator to manually enter the dimensional data into the software.

To help operators produce accurate results faster and with fewer errors, Instron offers a variety of solutions for measuring specimens and for transmitting data directly into Bluehill Universal Software. Once in the software, the data can then be used to automatically calculate the stress on the specimen. If a test requires final specimen width and thickness, this data can be recorded and can be used to automatically calculate results, such as the reduction of area.

### Specimen Measurement Solutions

#### Manual

Manual devices include a measurement device with a switch to transmit the data into the software.

**Benefits:** Reduce test times and eliminate errors from an operator entering an incorrect value.

#### Automatic

Automatic devices include a mechanically actuated measurement device and a data transfer switch. To use, the operator presses one button, which causes the device to measure the specimen dimensions with a constant force, while another button is used to transmit the data into the software.

**Benefits:** Take measurements in the shortest amount of time and eliminate any differences that can exist between operators.

#### Interface Boxes

Interface boxes include the cables necessary to connect a non-Instron supplied measurement device with Bluehill Universal Software. These allow two separate measurement devices to be connected at once, both sending data into the software.

**Benefits:** Connect two of your own devices directly to Bluehill Universal Software for shorter test times and fewer errors.



## Specification Table

Catalog Number	Description and Type	Number of Measurement Axes	Measurement Range		Accuracy		Resolution		Tip Geometry	Measurement Force
			mm	in	mm	in	mm	in		
2850-003	Vertically Mounted Probe Measurement System Manual	Single	0 - 25.4	0 - 1.0	±0.03	±0.0015	0.0025	0.0001	Multiple Included	2N or Less
2850-005	Hand Held Automatic Caliper Measurement System Manual	Single	0 - 150	0 - 6	±0.02	±0.001	0.01	0.0005	Carbide Tip	User Dependant
2850-007	Micrometer Measurement System with Stand Manual	Single	0 - 25.4	0 - 1.0	±0.001	±0.00005	0.001	0.00005	Flat Spindle with 6.35 mm Diameter (0.25 in)	Adjustable
CP121960	Standalone Vertical Specimen Measurement Device Automatic	Dual	0.25 - 12	6 - 25	±0.0015	±0.00006	0.0005	0.00002	Configurable at order	Configurable

Catalog Number	Title	Description
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2850-015	Interface Box for Automatic Sample Measurement Device	Connects up to two devices directly to Bluehill Universal Software
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2850-003



2850-005



2850-007



CP121960

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