



Force Measurement Re-imagined

Series F Tension / Compression Test Frames are engineered for force testing applications up to 1,500 lbF (6.7 kN). Select from a broad range of force sensor capacities and an expansive array of grips and fixtures.

Set up tests, record data, and analyze data via IntelliMESUR® software. From basic tests to multi-step sequencing, IntelliMESUR® is fully integrated with Series F systems. Select from a pre-configured tablet control panel or standalone software for your own Windows device.





















Virtually limitless applications

From food packaging to electronics, from consumer products to aerospace manufacturing, Mark-10 force test frames are at home in laboratory and production environments in virtually every industry worldwide.



Peel testing



Wire tensile testing



Compression spring testing



90° peel testing



Score bend testing



Tension spring testing

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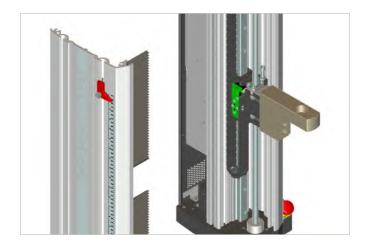


Engineered For Performance

There's a Series F test frame for every need and budget. Select from a wide range of force capacities, heights, and form factors.



	F105	F305	F505	F505H	F755	F755S	F1505	F1505S
Force Capacity:	100 lbF	300 lbF	500 lbF	500 lbF	750 lbF	750 lbF	1,500 lbF	1,500 lbF
	[0.5 kN]	[1.3 kN]	[2.2 kN]	[2.2 kN]	[3.4 kN]	[3.4 kN]	[6.7 kN]	[6.7 kN]
Travel Distance:	18.0 in	18.0 in	18.0 in	18.0 in	32.0 in	14.2 in	32.0 in	14.2 in
	[457 mm]	[457 mm]	[457 mm]	[457 mm]	[813 mm]	[360 mm]	[813 mm]	[360 mm]



Rigid and precise mechanical design

Exceptionally rigid frames feature custom extrusion designs, engineered for stiffness. Factory compensation of test frames and force sensors ensure **position accuracy of** ±0.002 in / 0.05 mm under any load, at any position.

Stepper motors and controllers drive a ballscrew and linear guideway for smooth, quiet operation, with virtually no speed variation under load.



Modular design

Frame bases can be removed to accommodate column extensions and alternative mounting configurations. Most electronics are housed in a self-contained enclosure, easily accessed and replaced if needed. Integrated T-slots along the column accommodate add-ons, such as a USB hub.

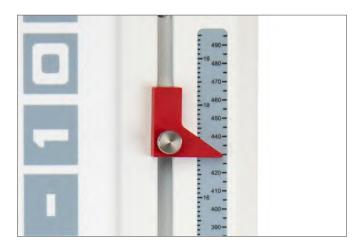


Seamless force sensor interface

Series FS05 smart force sensors mount directly to the crosshead of models F105, F305, F505, and F505H, without any connection cables. Ranges available from 0.12 to 500 lbF [0.5 N to 2.5 kN]. Accurate to $\pm 0.1\%$ of full scale.

Series FS06 force sensors accommodate larger and heavier grips and fixtures and are compatible with models F105, F305, F505, and F505H. Ranges are available from 50 to 500 lbF [250 N to 2.5 kN]. Accurate to \pm **0.15% of full scale**.

Series R07 S-beam type force sensors accommodate higher force ranges, also compatible with Plug & Test® technology. Ranges available from 50 to 1,500 lbF [250 N to 7.5 kN]. Accurate to ±0.15% of full scale.



External limit switches

Solid-state upper and lower limit switches may be used as test limits or as test exceptions. Dual-graduated rulers aid in switch placement.



An integrated motion control and data collection solution



IntelliMESUR® software is an integrated solution running on Windows tablets and PCs. Select a pre-loaded 10.1" tablet with mounting bracket or use your own Windows device. With IntelliMESUR®, you can create and run a wide range of basic and multi-step tests, including:

- Limit testing to a load, break, or distance
- Height measurement
- Load holding
- Cycle testing
- Multi-step testing, utilizing any combination of motion control and data collection functions
- Coefficient of friction (COF) testing (optional)

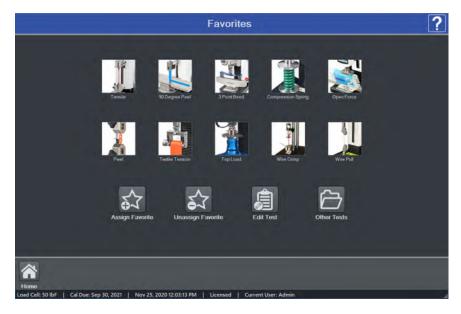
Perform individual runs or batches, and view data in graphical format or results tables. Save or export data as needed, or generate a report.

For best performance with the load holding function, use a force sensor with a capacity as close as possible to the target load.



Ready. Set. Go.

Quickly access up to 10 favorite tests. Associate an image with each favorite for easy identification.



What's your point of view?

Run a test via the Graph or Results views, and switch views as needed. Pass / Fail indicator easily identifies problematic samples. Individual runs may be invalidated if, for example, the sample slips out of the grips, or the test was interrupted.

Graph view

The Graph view plots force vs. distance or force vs. time. Overlay up to 10 runs for visual comparisons.

Results view

The Results view displays userselected results for each run. Statistics may be applied to selected results.





Test setup is easy as 1-2-3

Basic tests

Select a test type, and IntelliMESUR® will guide you through the setup.











Load Limit

Distance Limit

Break Limit

Load Hold

Cyc

1. Pre-Test Settings

- Units of measurement
- Batch size
- Display preferences
- Preload
- Operator prompts

2. Test Settings

- Test objective
- Speed
- Pass / fail limits
- Exception limits



3. Results & Statistics Selection

- Final load
- Maximum load
- Minimum load
- Load at max. distance
- Load at min. distance
- Average load
- Delta load
- Maximum distance
- Final distance
- Minimum distance
- Height
- Distance at max. load
- Distance at min. load
- Distance at break
- Delta distance
- Area under the curve



Test Settings



Results & Statistics Selection

Multi-step tests

Building upon basic test wizards, easily incorporate any combination of steps, with the ability to loop a sequence of steps. Select from:

- Move to load
- Move to distance
- Move to break
- Hold a load or position
- Loop / cycle
- Datum
- Prompts
- Save current load or position
- Zero load or position
- Return to Home position



Insert and re-order steps as necessary

Operator prompting

Prompts can appear at the beginning of each test, batch, or run.

Ask prompts ask the operator for information which is saved in the results table - for example, a lot number. Type the response or use a barcode scanner.

Tell prompts provide instructions to the operator, and can include an image.



Ask Prompt



Tell Prompt

Take your measurements to new heights

Use **Height Mode** to determine height at a specific load, commonly used in spring testing. A datum may be set to define the reference point.



Deflection compensation

Series F test frames and force sensors are deflection-compensated at the factory, resulting in system distance measurement accuracy of ± 0.002 in / 0.05 mm at any load and at any position along the frame.

To further compensate grips and attachments, use IntelliMESUR®'s deflection compensation utility. The deflection offset file can be associated with the test setup file.



Robust data acquisition and management

Blazingly fast

Force sensor sampling rate of **20,000 Hz** yields accurate peak measurements even in quick-duration events. IntelliMESUR® collects load and travel data at up to **1,000 Hz**, and allows up to 1 million data points per run.

Customizable reporting

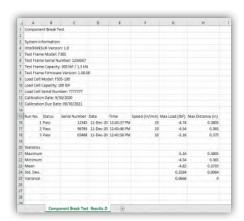
Print or create a PDF report, including results, statistics, graph, system and user information, and comments. Personalize the report with your company logo and an additional image.

Create report templates to save with future reports.

Save or export data

Automatically or manually save individual runs and results to a USB drive or file location of your choice. File names are automatically generated with the test name and time stamp, for quick searchability.

Results sets and data from individual runs may also be exported as .csv files.

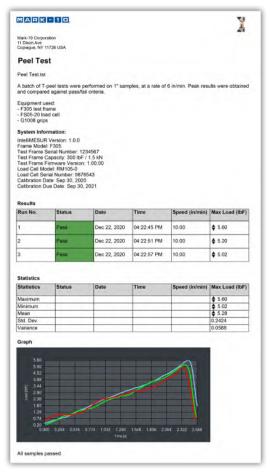


Results .csv output

Secure user access

Control user access with three permissions levels:

- Administrators have full access.
- **Supervisors** can create a test, run reports, calibrate force sensors, and change settings.
- Operators may recall and run a test, but cannot create a test or perform more advanced functions.



PDF report



Intelligent manual control

Manually control the test frame to obtain quick force and distance results, or manually position the crosshead prior to a test. Select from several actuation methods, including momentary (buttonhold), maintained (button release) motion, jog mode with three distance presets.



With Mark-10's innovative **FollowMe®** function, push and pull on the force sensor to move the crosshead. Apply greater force to achieve faster motion. FollowMe® is responsive enough for quick positioning as well as fine adjustments.



FollowMe®

The **Height** / **Length Offset** utility in Manual Control defines a reference point to accommodate applications in which grips cannot directly touch one another.



Uniquely serviceable

Calibrate force sensors on the test frame or off-site

Calibrate Series FS05, FS06 and R07 force sensors in one of two ways:

Test frame

IntelliMESUR® provides an integrated utility, with an intuitive step-by-step wizard. Manual controls allow the technician to use the test frame to apply tension and compression forces.

Off-site

Conveniently remove the force sensors for off-site calibration with a Mark-10 Model M7I or M5I indicator.

Field-upgradeable

Test frame firmware and IntelliMESUR® software can be updated in the field via a simple user interface. No need to schedule a service call or to ship hardware to the factory.





Easy-to-service electronics

Most electronics are housed in an integrated module, easily replaced without special tools or processes.









FS05 force sensor connected to an M5I indicator via AC1083 adapter for offsite calibration





- Control panel, mounting bracket, and hardware (-IMT models only)
- Mounting bracket, column end (F505H only)
- USB flash drive containing software installation files (-IM models only)
- USB dongle (-IM models only)
- USB cable
- #10-32M medium hook
- 5/16-18M large hook
- #10-32F 2" diameter compression plate
- #10-32 F/F coupler
- Adapter, 5/16-18M to #10-32F
- Set screw, #10-32 x 3/4"
- Hex nut, #10-32 (2)
- Power cord
- Allen wrench set



F755 / F755S / F1505 / F1505S

- Control panel, mounting bracket, and hardware (-IMT models only)
- USB flash drive containing software installation files (-IM models only)
- USB dongle (-IM models only)
- USB cable
- Eye end kit for base
- Lock ring for eye end (2)
- Spanner wrench (2)
- Power cord
- Allen wrench set



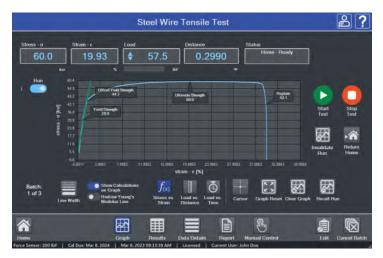
Materials Testing Calculations Module (IMF002)

Characterize and analyze the behavior of materials, components, and assemblies with a suite of materials testing calculations, including:

- Stress and strain
- Tensile strength
- Shear strength
- Young's modulus (auto-calculate or manually draw)
- Yield point
- Offset yield (user-specified percentage)
- Rupture
- Percent elongation
- Flexural modulus
- Force per unit width
- Wide variety of results based on the above calculations, such as stress at maximum strain, strain at rupture, etc.

IntelliMESUR® formats calculations into a Results table, with corresponding statistics for multiple runs. View a stress-strain curve with annotated calculations. Display up to 10 runs simultaneously for visual comparison.

Note: Calculations are not available for multi-step tests.



View a stress-strain curve with annotated materials testing calculations via the optional Materials Testing Calculations Module.



View a broad range of common materials testing calculations results in tabular format, with corresponding statistics for multiple runs, via the optional Materials Testing Calculations module.



COF testing module (IMF001)

Measure static and dynamic COF for a wide range of materials, per ASTM D1894 and other relevant standards. Specify the sled weight and configure data collection start and stop triggers. This module can be ordered upfront or enabled in the field via activation code.



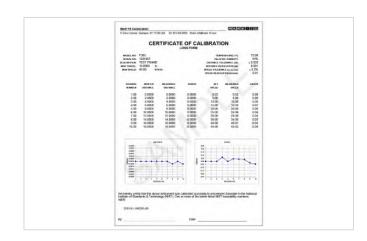
An F305-IMT advanced test frame configured with a G1086 coefficient of friction fixture.



Specify sled weight and data collection start and stop triggers during test setup.

Certificate of Calibration - Distance & Speed (CERT-DS)

NIST-traceable certificate of calibration for test frame distance measurement and speed.



Column Extensions for Models F105 / F305 / F505 / F505H

Select from single- and double-column extensions for oversized samples. Three heights are available - 6, 12 and 24 in [150, 300, and 600 mm]. Double-column extensions accommodate up to a 20 in. [508 mm] wide sample, or Ø21.5 in [Ø546 mm] round sample. Base contains rows of T-slots for fixture mounting. Double column extensions not available for F505H.



Shields (AC1092-1, AC1092-2)

Provide pinch and sample debris protection for the operator. An electrical interlock prevents test frame operation while the door is open. The tablet control panel and included remote emergency stop switch can be mounted to the shield's extruded frame.



Control Panel Tabletop Mounting Kit (AC1085)

For applications requiring remote use of the control panel. Features an adjustable viewing angle and a base with thru holes for bench mounting.



USB Hub (AC1093)

Test frame-mounted 4-port USB hub improves cable management and conveniently accommodates peripherals, such as a flash drive, barcode scanner, etc. Compatible with all Series F test frames.



Adapter, FS05 to Plug & Test® Connector and Extension (AC1083, AC1084)

Adapts a Series FS05 force sensor or PTAF sensor adapter to Plug & Test* type interface, for ease of external calibration via a Mark-10 indicator. Also permits mounting of a Series FS05 sensor to Models F755, F755S, F1505, and F1505S test frames. Shown above with Model M5I indicator and AC1084 extension cable (12 in / 305 mm).



Third-party Force Sensor Adapter (PTAF)

Adapts a user-supplied force sensor to Models F105, F305, F505, and F505H test frames, and Models M5I and M7I indicators. AC1083 adapter required for Models F755, F755S, F1505, and F1505S test frames. Use the included software utility to select from a library of common force capacities. Requires a Model M5I or M7I indicator for configuration.



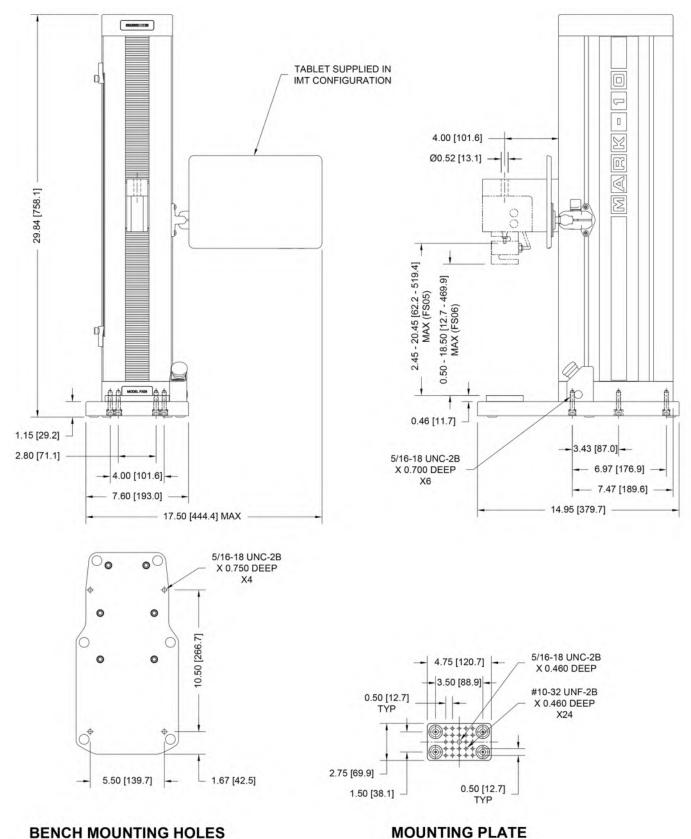
	F105	F305	F505	F505H	F755	F755S	F1505	F1505S	
Load capacity*:	100 lbF [0.5 kN]	300 lbF [1.3 kN]	500 [2.2	lbF kN]		lbF kN]	1,500 lbF [6.7 kN]		
Maximum travel:		18. [457	0 in mm]		32.0 in [813 mm]	14.2 in [360 mm]	32.0 in [813 mm]	14.2 in [360 mm]	
Speed range:		0.02 - 45 in/min [0.5 - 1,100 mm/min]				0 in/min 5 mm/min]	0.001 - 7 [0.02 - 1,80	0 in/min 0 mm/min]	
Load accuracy (% of full scale):			Force sensor:	Test fram Series FS05: ±		s R07: ±0.15%			
Load sampling rate:				20,00	00 Hz				
Data acquisition rate:				1,00	0 Hz				
Speed accuracy:			±0.2% of	setting, virtual	ly no variation	with load			
Distance accuracy:		±	0.002 in [0.05	mm], factory-c	compensated a	at up to full loa	ad		
Distance resolution:				0.0005 in	/ 0.01 mm				
Limit switch repeatability:				±0.001 in	/ 0.03 mm				
Overload protection:			Motor stop:	s at 120% of fu	ll scale of the f	force sensor			
Power:	Universa	ıl input 100-24	-0 VAC, 50/60 F	Hz, 120W		put 100-240) Hz, 300W		put 100-240) Hz, 450W	
Fuse type:		1.2 A, 250V, 3	BAG, SLO BLO		4A, 3AG, SLO BLO				
Weight:		60 lb [27 kg]		70 lb [32 kg]	184 lb [83 kg]	149 lb [68 kg]	197 lb [89 kg]	157 lb [71 kg]	
Shipping weight:		75 lb [34 kg]		85 lb [39 kg]	235 lb [107 kg]	195 lb [88 kg]	247 lb [112 kg]	205 lb [93 kg]	
Environmental conditions:	 Indoor use only Up to 6,500 ft [2,000 m] above sea level Temperature range: 40 - 95°F [5 - 35°C] Humidity range: up to 80% relative humidity at 31°C, decreasing linearly to 50% relative humidity at 40°C, non condensing Mains supply voltage fluctuations up to ±10 % of the nominal voltage Transient overvoltages up to the levels of Overvoltage Category II Use in environments up to Pollution Degree 2 								
Conformance:				C	E				
Warranty:			3 years [see	individual sta	tement for fur	ther details]			

^{*} Load capacity is reduced at higher speeds in the following models:

- F305: limited to 200 lbF [1 kN] above 24 in [610 mm]/min
- F505 / F505H: limited to 300 lbF [1.3 kN] above 24 in [610 mm]/min
- F755 / F755S: limited to 500 lbF [2.3 kN] above 35 in [900 mm]/min
- F1505 / F1505S: limited to 1,000 lbF [4.5 kN] above 60 in [1,525 mm]/min

Dimensions in (mm)

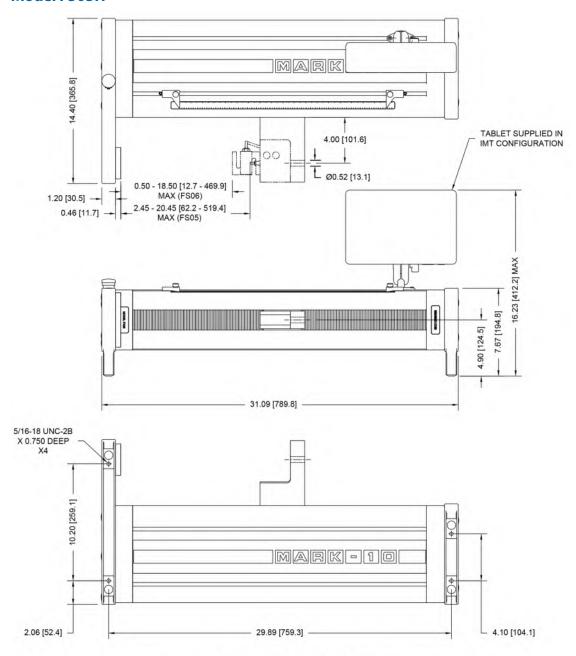
Models F105 | F305 | F505



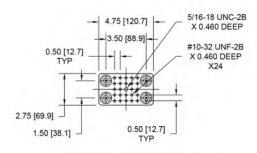
BOTTOM VIEW

MOUNTING PLATE TOP VIEW

Model F505H

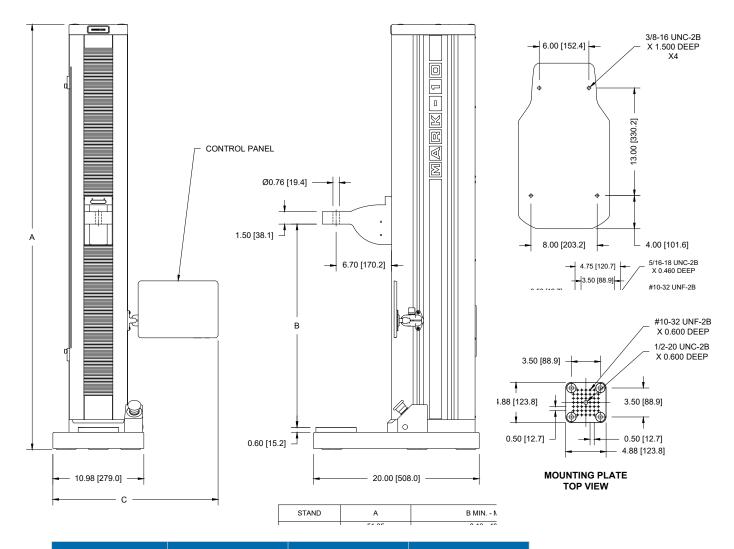


BENCH MOUNTING HOLES BOTTOM VIEW



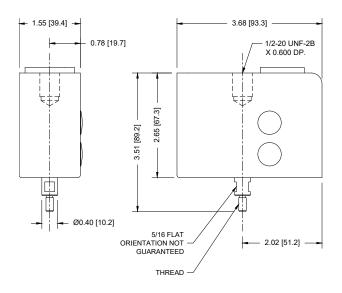
MOUNTING PLATE TOP VIEW

Models F755 | F755S | F1505 | F1505S



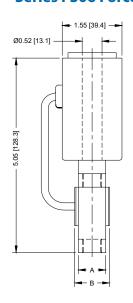
	F755	F755S	F1505	F1505S
A	50.85	33.39	51.35	33.89
	[1291.6]	[848.1]	[1304.3]	[860.9]
В	8.13 - 40.13	8.13 - 22.33	8.13 - 40.13	8.13 - 22.33
	[206.4 - 1019.2]	[206.4 - 567.1]	[206.4 - 1019.2]	[206.4 - 567.1]

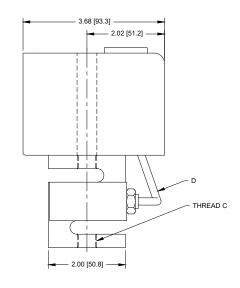
Series FS05 Force Sensors



Model No.	Thread
FS05-012 - FS05-100	#10-32 UNF
FS05-200 - FS05-500	5/16-18 UNC

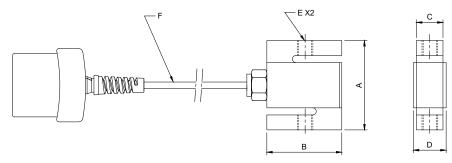
Series FS06 Force Sensors





Model No.	A	В	THREAD C	D
FS05-012 - FS05-100	0.46 [11.7]	0.71 [18.0]	1/4-28 UNF	6.00
FS05-200 - FS05-500	0.90 [22.6]	1.10 [27.9]	1/2-20 UNF	[152.4]

Series R07 Force Sensors



Model No.	Α	В	С	D	Е	F								
MR07-50														
MR07-100			0.46 [11.7]	0.90 [22.9]	1/4-28 UNF									
MR07-200	2.40 [61.0]		[11.7]	[22.7]	ON	10.00								
MR07-300		2.00 [50.8]												
MR07-500			0.71	1.10		10.00 [254.0]								
MR07-750			[18.0]	[27.9]	1/2-20									
MR07-1000													UNF	
MR07-1500			0.96 [24.4]	1.40 [35.6]										

Complete Systems - Test Frame with Pre-configured Tablet Control Panel

Model No.	Description
F105-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, 100 lbF / 0.5 kN, 110V*
F305-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, 300 lbF / 1.3 kN, 110V*
F505-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, 500 lbF / 2.2 kN, 110V*
F505H-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, horizontal, 500 lbF / 2.2 kN, 110V*
F755-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, 750 lbF / 3.4 kN, 110V*
F755S-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, short, 750 lbF / 3.4 kN, 110V*
F1505-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, 1,500 lbF / 6.7 kN, 110V*
F1505S-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, short, 1,500 lbF / 6.7 kN, 110V*

Test Frame + Standalone Software (for customer installation on a Windows device)

Model No.	Description
F105-IM	Test frame with IntelliMESUR® software, single license, vertical, 100 lbF / 0.5 kN, 110V*
F305-IM	Test frame with IntelliMESUR® software, single license, vertical, 300 lbF / 1.3 kN, 110V*
F505-IM	Test frame with IntelliMESUR® software, single license, vertical, 500 lbF / 2.2 kN, 110V*
F505H-IM	Test frame with IntelliMESUR® software, single license, horizontal, 500 lbF / 2.2 kN, 110V*
F755-IM	Test frame with IntelliMESUR® software, single license, vertical, 750 lbF / 3.4 kN, 110V*
F755S-IM	Test frame with IntelliMESUR® software, single license, vertical, short, 750 lbF / 3.4 kN, 110V*
F1505-IM	Test frame with IntelliMESUR® software, single license, vertical, 1,500 lbF / 6.7 kN, 110V*
F1505S-IM	Test frame with IntelliMESUR® software, single license, vertical, short, 1,500 lbF / 6.7 kN, 110V*

^{*} All test frame models contain a universal power supply (80 - 240V) and power cord with US prong style. Add suffix 'E' for European prong, 'U' for UK prong, or 'A' for Australian prong. Ex: F505-IMTE.

Series FS05 Force Sensors



Compatible with Models F105, F305, F505, and F505H. Adapter part no. AC1083 is required for Models F755, F755S, F1505, and F1505S.

	Capacity x Resolution						
Model No.	lbF	ozF	gF	kgF	N	kN	mN
FS05-012	0.12 x 0.00002	2 x 0.0005	50 x 0.01	-	0.5 x 0.0001	-	500 x 0.1
FS05-025	0.25 x 0.0001	4 x 0.002	100 x 0.05	-	1 x 0.0005	-	1000 x 0.5
FS05-05	0.5 x 0.0002	8 x 0.005	250 x 0.1	-	2.5 x 0.001	-	2500 x 1
FS05-2	2 x 0.001	32 x 0.02	1000 x 0.5	1 x 0.0005	10 x 0.005	-	-
FS05-5	5 x 0.002	80 x 0.05	2500 x 1	2.5 x 0.001	25 x 0.01	-	-
FS05-10	10 x 0.005	160 x 0.1	5000 x 2	5 x 0.002	50 x 0.02	-	-
FS05-20	20 x 0.01	320 x 0.2	10000 x 5	10 x 0.005	100 x 0.05	-	-
FS05-50	50 x 0.02	800 x 0.5	25000 x 10	25 x 0.01	250 x 0.1	-	-
FS05-100	100 x 0.05	1600 x 1	50000 x 20	50 x 0.02	500 x 0.2	-	-
FS05-200	200 x 0.1	3200 x 2	-	100 x 0.05	1000 x 0.5	1 x 0.0005	-
FS05-300	300 x 0.1	4800 x 2	-	150 x 0.05	1500 x 0.5	1.5 x 0.0005	-
FS05-500	500 x 0.2	8000 x 5	-	250 x 0.1	2500 x 1	2.5 x 0.001	-

Series R07 Force Sensors



Compatible with Models F755, F755S, F1505, and F1505S. Cannot be used with Models F105, F305, F505, and F505H.

	Capacity x Resolution						
Model No.	lbF	ozF	gF	kgF	N	kN	
MR07-50	50 x 0.02	800 x 0.5	25000 x 10	25 x 0.01	250 x 0.1	-	
MR07-100	100 x 0.05	1600 x 1	50000 x 20	50 x 0.02	500 x 0.2	-	
MR07-200	200 x 0.1	3200 x 2	-	100 x 0.05	1000 x 0.5	1 x 0.0005	
MR07-300	300 x 0.2	4800 x 5	-	150 x 0.1	1500 x 1	1.5 x 0.001	
MR07-500	500 x 0.2	8000 x 5	-	250 x 0.1	2500 x 1	2.5 x 0.001	
MR07-750	750 x 0.5	12000 x 10	-	375 x 0.2	3750 x 2	3.75 x 0.002	
MR07-1000	1000 x 0.5	16000 x 10	-	500 x 0.2	5000 x 2	5 x 0.002	
MR07-1500	1500 x 1	24000 x 20	-	750 x 0.5	7500 x 5	7.5 x 0.005	

Series FS06 Force Sensors

Compatible with Models F105, F305, F505, and F505H.



	Capacity x Resolution							
Model No.	lbF	ozF	gF	kgF	N	kN		
FS06-50	50 x 0.02	800 x 0.5	25000 x 10	25 x 0.01	250 x 0.1	-		
FS06-100	100 x 0.05	1600 x 1	50000 x 20	50 x 0.02	500 x 0.2	-		
FS06-200	200 x 0.1	3200 x 2	-	100 x 0.05	1000 x 0.5	1 x 0.0005		
FS06-300	300 x 0.2	4800 x 5	-	150 x 0.1	1500 x 1	1.5 x 0.001		
FS06-500	500 x 0.2	8000 x 5	-	250 x 0.1	2500 x 1	2.5 x 0.001		

Optional Equipment

Model No.	Description
IMF001	COF testing module for IntelliMESUR®
IMF002	Materials testing calculations module for IntelliMESUR®
CERT-DS	Certificate of calibration, distance and speed
AC1094-1	Single column extension, 6 in / 150 mm, F105 / F305 / F505
AC1094-2	Single column extension, 12 in / 300 mm, F105 / F305 / F505
AC1094-3	Single column extension, 24 in / 600 mm, F105 / F305 / F505
AC1094-4	Single column extension, 6 in / 150 mm, F505H
AC1094-5	Single column extension, 12 in / 300 mm, F505H
AC1094-6	Single column extension, 24 in / 600 mm, F505H
AC1095-1	Double column extension, 6 in / 150 mm, F105 / F305 / F505
AC1095-2	Double column extension, 12 in / 300 mm, F105 / F305 / F505
AC1095-3	Double column extension, 24 in / 600 mm, F105 / F305 / F505
AC1092-1	Shield, 51.9" height
AC1092-2	Shield, 34.4" height
AC1085	Control panel tabeltop mounting kit
AC1093	USB hub
AC1083	Adapter, FS05 sensor / PTAF adapter, to Plug & Test® connector / F755, F755S, F1505, F1505S test frames, 10 in / 250 mm cable
AC1084	Extension cable for AC1083, 24 in / 610 mm, Plug & Test®, male/female
PTAF	Adapter, Plug & Test®, customer-supplied force sensor to Series F test frames
DC5000	Spare tablet control panel, pre-installed with IntelliMESUR®, with test frame mounting hardware
15-1019	IntelliMESUR® software, customer installation on a Windows device, additional seat



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Ergonomics



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