L1 Systems

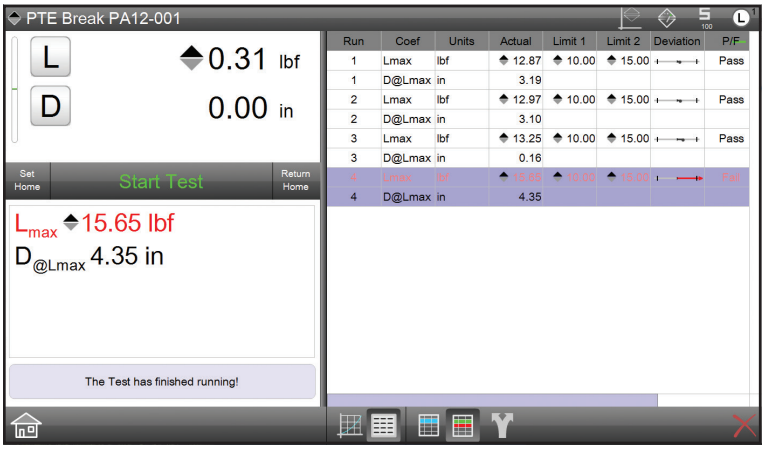
Starrett®

METROLOGY SOLUTIONS

L1 Systems represent our most-basic, computer-based force testing solution. Optimized for production and quality control testing, they are designed to be easy to setup, operate and maintain.

L1 Systems can be used to perform a wide variety of testing methods including:

- Load Limit Testing
- Distance Limit Testing
- Break Limit Testing
- Cyclic Count Testing
- Cyclic Duration Testing
- Constant Load Testing
- Constant Distance Testing



Lx System Product Comparisons and Capabilities					
Target Applications	**L3**	**L2 Plus**	**L2**	**S2**	**L1**
Use for Stress, Strain and Material Testing applications	❍				
Use for Advanced Load, Distance and Force Analysis applications	❍	❍			
Use for Basic Load, Distance and Force Measurement applications	❍	❍	❍		❍
Use for Advanced Extension and Compression Spring applications	❍	❍			
Use for Basic Extension and Compression Spring applications				❍	
User Interface					
All-In-On Computer Workstation, Windows® OS	❍	❍			
Tablet Computer, Windows® OS			❍	❍	❍
Software Applications					
Test Builder	❍	❍	❍	✪	
Force Quick Test Templates			❍		❍
Spring Quick Test Templates				❍	
Formula Builder	❍	✪	✪	✪	
Automation Builder	✪	✪	✪	✪	
Measurement Methodology					
Measure results using the graph	❍	❍			
Measure results using a List of Value menu	❍	❍	❍	❍	
Create Test Setups using Graphical Test Methods (No programming)	❍	❍	❍	❑	
Create Test Setups using Quick-Test Templates			❍	❍	❍
Test Methods					
Tensile Testing, Load, Distance, Break, Rate	❍	❍	❍	❑	❍
Compression Testing, Load, Distance, Break, Rate	❍	❍	❍	❑	❍
Hold Testing, Load, Distance for Duration or Event	❍	❍	❍	❑	❍
Cyclic Testing for Duration, Count, Loop or Event	❍	❍	❍	❑	❍
Shear Testing	❍	❍			
Flexural Testing	❍	❍			
Peel Testing	❍	❍			
Coefficient of Friction Testing	❍	❍			
Spring Testing	❍	❍		❍	
Measurement Capabilities					
Measure Stress, Strain, Elongation, Strengths	❍				
Measure Offset Yield	❍				
Measure Modulus (Elastic, Chord, Tangent)	❍				
Measure Strain and Elongation using Extensometer(s) (requires MMx test frames)	❍				
Measure Energy, Work, Resilience	❍	❍			
Create Mathematical Expressions using Algebraic, Trigonometric and Logarithmic functions	❍	◆			
Create Basic Expressions using Add, Subtract, Multiple and Divide	❍	◆	◆	◆	
Use Digital I/O	◆	◆	◆	◆	
Use Analog I/O (requires MMx test frames)	◆	◆			
Use Command and Conditional Logic	◆	◆	◆	◆	
Measure Load, Distance, Time	❍	❍	❍	❍	❍
Measure Minimum, Maximum and Averages	❍	❍	❍	❍	❍
Measure Slopes and Intersections	❍	❍			
Measure Peaks, Valleys, Counts, Averages	❍	❍			
Measure Break, Rupture	❍	❍	❍	❒	❍
Measure Delta between results within a test	❍	❍	❍		
Measure results within multiple test runs simultaneously (multiview)	❍	❍			
Measure Spring Rate, Spring Constant	❍	❍		❍	
Reporting and Exporting Data					
Print using standard reports, graph, batch, tolerance, statistics	❍	❍	❍	❍	❍
Export results/data in .csv for custom reporting	❍	❍	❍	❍	❍
Export results/data in .csv for integration with SPC software	❍	❍	❍	❍	❍
Include tolerances on any result	❍	❍	❍	❍	❍

Note: FMM frames run L1 software only
L3, L2 Plus, L2 and S2 software require a FMS, MMS, FMD or MMD frame