Mark-10 Software Functions

Individual Functions					
Function	Part No.	Description	Co-requirements		
Distance Measurement	EMF001-1	Measure distance, with the ability to zero the reading.	-		
Distance Limits	EMF002-1	Stop at user-defined upper and lower distance limits.	- Distance Measurement (EMF001-1)		
Preload	EMF003-1	Zero the travel position automatically at a user-defined preload value.	- Distance Measurement (EMF001-1)		
High Speed Extension	EMF004-1	Extend the high end of the speed range to 45 in/min [1,100 mm/min].	-		
Low Speed Extension	EMF005-1	Extend the low end of the speed range to 0.02 in/min [0.5 mm/min].	-		
Cycling	EMF006-1	Set up to 100,000 cycles, with user-defined upper and lower dwell times. Cycle between any combination of limit switches, travel limits, and load limits.	- If cycling to distance limits, add Distance Measurement (EMF001-1) and Distance Limits (EMF002-1)		
Break Detection	EMF007-1	Stop when a user- defined drop in force occurs.	-		

Load Holding	EMF008-1	Stop at, and maintain, a user-defined load for a specified period of time. For best performance, use a force sensor with a capacity as close as possible to the target load.	_
FollowMe®	EMF009-1	Push and pull on the sensor's loading shaft to move the crosshead up and down, ideal for manual positioning prior to a test. Speed increases with applied force.	_
Graphing & Reporting	EMF010-1	Graph load vs. time or distance, view statistics, export data, and generate a report, including graph, results, run data, and other information.	- If graphing load vs. distance, add Distance Measurement (EMF001-1)
PC Control	EMF011-1	Control the test frame with your own application using a supplied library of motion control and data collection serial commands. While PC control is active, the control panel becomes a	-AC1107 cable, test frame to PC

		pendant, limited to basic, manual controls.	
Coefficient of Friction Measurement	EMF012-1	Measure static and dynamic coefficients of friction, with user-defined sled weight.	-G1086 coefficient of friction fixture (suggested)
Spring Rate Measurement	EMF013-1	Measure spring rate, with user-defined start and stop data collection triggers.	-Distance Measurement (EMF001-1) Suggested functions: -Distance Limits (EMF002-1) -Preload (EMF003-1)