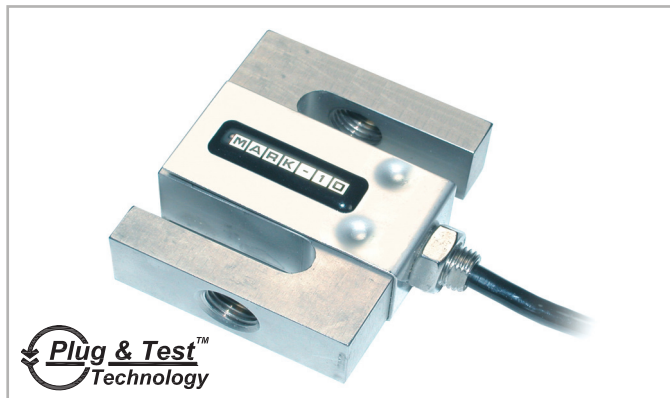


32-1130 REV 2

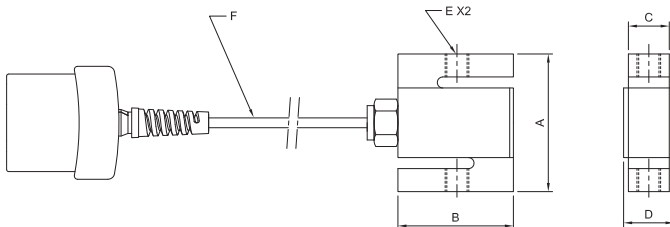


Series R01 rugged smart sensors are designed for measuring tension and compression force, with applications in virtually every industry. Durable S-Beam design with threaded holes on two sides allows for many configurations. The sensor can be integrated into an existing system or mounted to a Mark-10 test stand. A shortened cable is available for mounting to an ESM1500LC test stand\*. Capacities available from 50 to 10,000 lbF [250 N to 50 kN]. Compatible with Mark-10 indicators (sold separately) through unique Plug & Test™ technology.

## Specifications

<b>Accuracy:</b>	±0.15% of full scale + indicator
<b>Safe Overload:</b>	150% of full scale
<b>Weight:</b>	1.9 to 3.0 lb [0.9 to 1.4 kg], depending on model

## Dimensions in [mm]



## Optional Items

<b>AC1018</b>	Mounting kit, Series R01/R03 to test stand (not required for ESM1500)
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## Capacity x Resolution

Model No.	With Models 7i & 5i indicators						With Model 3i indicator			
	lbF	ozF	gF	kgF	N	kN	lbF	kgF	N	kN
MR01-50*	50 x 0.02	800 x 0.5	25000 x 10	25 x 0.01	250 x 0.1	-	50 x 0.05	25 x 0.02	250 x 0.2	-
MR01-100*	100 x 0.05	1600 x 1	50000 x 20	50 x 0.02	500 x 0.2	-	100 x 0.1	50 x 0.05	500 x 0.5	-
MR01-200*	200 x 0.1	3200 x 2	-	100 x 0.05	1000 x 0.5	1 x 0.0005	200 x 0.2	100 x 0.1	1000 x 1	-
MR01-500*	500 x 0.2	8000 x 5	-	250 x 0.1	2500 x 1	2.5 x 0.001	500 x 0.5	250 x 0.2	2500 x 2	-
MR01-1000*	1000 x 0.5	16000 x 10	-	500 x 0.2	5000 x 2	5 x 0.002	1000 x 1	500 x 0.5	5000 x 5	-
MR01-2000*	2000 x 1	32000 x 20	-	1000 x 0.5	10000 x 5	10 x 0.005	2000 x 2	1000 x 1	10000 x 10	-
MR01-5000	5000 x 2	-	-	2500 x 1	25000 x 10	25 x 0.01	5000 x 5	2500 x 2	-	25 x 0.02
MR01-10000	10000 x 5	-	-	5000 x 2	50000 x 25	50 x 0.02	10000 x 10	5000 x 5	-	50 x 0.05

\* Add suffix "-1" for shortened cable, for use on the ESM1500LC test stand. Ex: MR01-1000-1. "-1" sensors include hardware for mounting to the ESM1500LC's crosshead.



< Unique Plug & Test™ technology allows for interchangeable sensors to be used with any Mark-10 indicator. All calibration and configuration data is saved in the smart connector.



< The Plug & Test™ connector locks into the indicator when fully inserted. Dual buttons on the indicator housing release the connector for easy removal. Gold plated spring contacts ensure long lasting and reliable connection.



^ Optional AC1018 mounting kit adapts a Series R01 sensor to a Mark-10 test stand.



^ Series R01 sensor with shortened cable is shown mounted to an ESM1500LC test stand.\*

Model No.	A	B	C	D	E	F			
MR01-50*	2.40 [61.0]	2.00 [50.8]	0.46 [11.7]	0.65 [16.5]	1/4-28 UNF	MR01-XXXX: 20 ft [6 m]			
MR01-100*			0.71 [18.0]	0.90 [22.9]	1/2-20 UNF				
MR01-200*							0.96 [24.4]	1.15 [29.2]	3/4-16 UNF
MR01-500*									
MR01-1000*									
MR01-2000*									
MR01-5000	3.90 [99.1]	3.00 [76.2]				MR01-XXXX-1* 7.5 in [191 mm]*			
MR01-10000									