Plug and Test™ Force Sensors Series R01

32-1130 REV 2

Plug & Test™ Technology
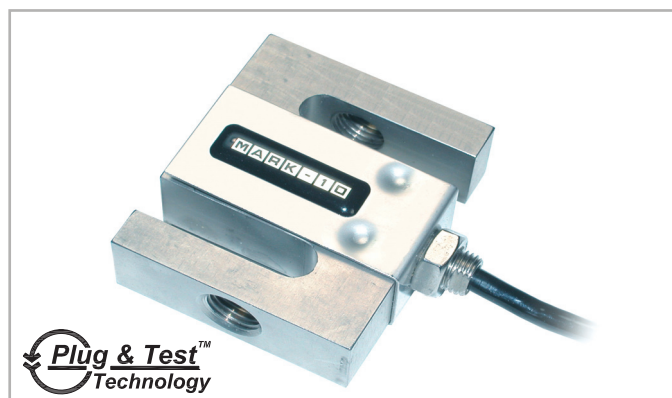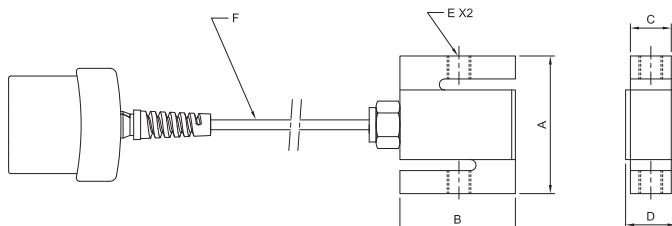
Series R01 rugged smart sensors are designed for measuring tension and compression force, with applications in virtually every industry. Durable S-Beam design with threaded holes on two sides allows for many configurations. The sensor can be integrated into an existing system or mounted to a Mark-10 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.

< 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 receptacle in 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.

Specifications

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

Dimensions in [mm]

Optional Items

AC1018	Mounting kit, Series R01/R03 to test stand (not required for ESM1500)

^ 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*			0.46 [11.7]	0.65 [16.5]	1/4-28 UNF	MR01-XXXXX: 20 ft [6 m]
MR01-100*	2.40 [61.0]	2.00 [50.8]				
MR01-200*						
MR01-500*			0.71 [18.0]	0.90 [22.9]	1/2-20 UNF	
MR01-1000*						MR01-XXXX-1* 7.5 in [191 mm]*
MR01-2000*						
MR01-5000	3.90 [99.1]	3.00 [76.2]	0.96 [24.4]	1.15 [29.2]	3/4-16 UNF	
MR01-10000						

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.

MARK-10

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3 YEAR WARRANTY

Specifications subject to change without prior notice