

SERIES R01 - PLUG AND TEST™ FORCE SENSOR

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. Steel construction ensures many years of use. The sensor can be integrated into an existing system or mounted to a Mark-10 test stand. Capacities available from 50 to 10,000 lbf [250 N to 50 kN]. Compatible with Mark-10 model 5i and 3i indicators (sold separately) through unique Plug & Test™ technology.

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

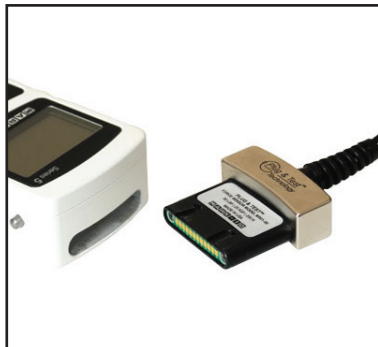
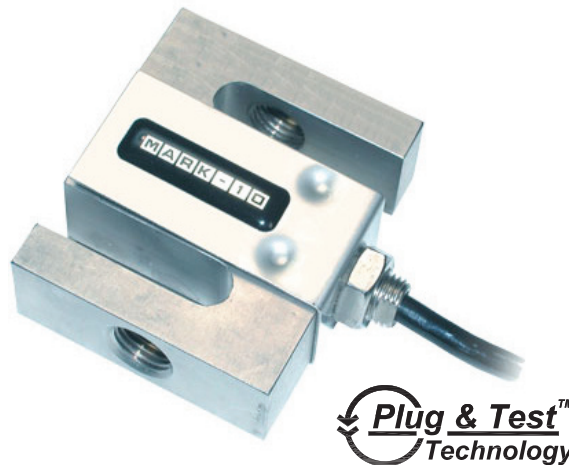
- **COMPATIBLE WITH THE 5i AND 3i DIGITAL INDICATORS**
- **UNIQUE PLUG & TEST™ CONNECTOR HOLDS ALL CALIBRATION AND CONFIGURATION DATA**
- **MEASURES TENSILE AND COMPRESSIVE FORCES**
- **NIST-TRACEABLE CERTIFICATE OF CALIBRATION INCLUDED**
- **ACCURACY: ± 0.15% OF FULL SCALE ±1 DIGIT + INDICATOR**
- **WEIGHT: FROM 1.9 LBS (0.9 KG) TO 3 LBS (1.4)**
- **WARRANTY: 3 YEARS**

Model No.	A	B	C	D	E
MR01-50	2.40 [61.0]	2.00 [50.8]	0.46 [11.7]	0.65 [16.5]	1/4-28 UNF
MR01-100					
MR01-200					
MR01-500			0.71 [18.0]	0.90 [22.9]	1/2-20 UNF
MR01-1000					
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					

Optional Item

AC1018	Mounting kit, Series R01/R03 to test stand
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SERIES R01



Unique Plug & Test™ technology allows for interchangeable sensors to be used with a Mark-10 model 5i or 3i indicator. All calibration and configuration data is saved in the smart connector.

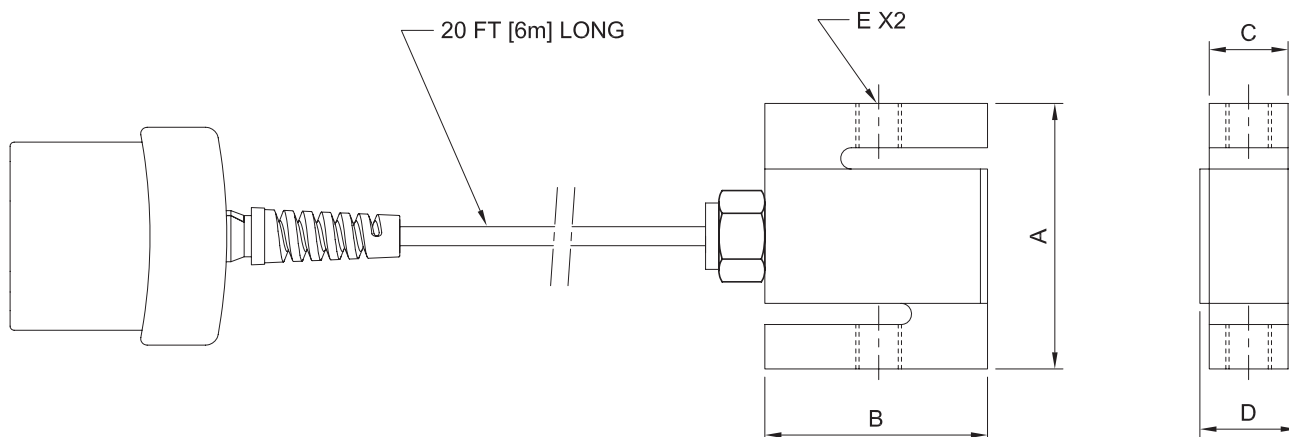


The Plug & Test™ connector locks into the receptacle in the indicator when fully inserted. Dual buttons on the indicator housing release the connector for easy removal. Gold plated spring contacts ensure long lasting and reliable connection



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

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Model	CAPACITY x RESOLUTION									
	with Model 5i indicator						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