

Series R04 smart sensors are designed for tension and compression measurement applications with tight space constraints. These extremely compact force sensors feature threaded holes on two sides, which can accept a variety of hooks and implements. Capacities available from 0.25 to 100 lbF [1 to 500 N]. Compatible with Mark-10 indicators (sold separately) through unique Plug & Test® technology. Includes a certificate of calibration with data. A combined certificate for the sensor and an indicator is available at time of order, part no. CERT-SI.

Specifications

Accuracy:	±0.2% of full scale + indicator
Safe Overload:	200% of full scale
Weight:	0.015 lb [0.007 kg]

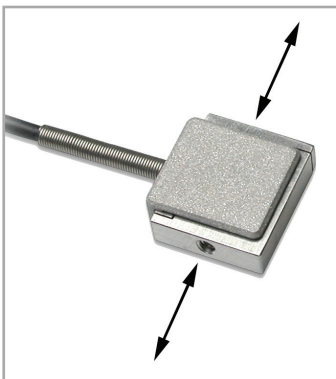
Features



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.



Force is applied to these surfaces. Threaded holes are supplied on both sides to accommodate various mounting configurations and attachments.

Mark-10 Corporation
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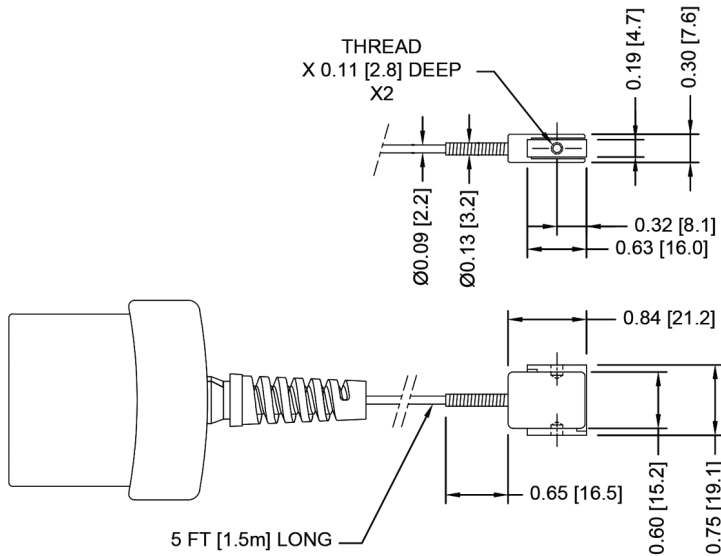
CERTIFICATE OF CALIBRATION
LONG FORM

READING NUMBER	WEIGHT (g)	TENSION (mN)	ERROR (mN)	COMP. COEFF. (mN/g)	TEMPERATURE (°C)	RELATIVE HUMIDITY (%)	DATE
1	10.00	10.02	0.02	0.0002	20.0	50	10/14/2011
2	20.00	20.02	0.02	0.0002	20.0	50	10/14/2011
3	30.00	30.02	0.02	0.0002	20.0	50	10/14/2011
4	40.00	40.04	0.04	0.0004	20.0	50	10/14/2011
5	50.00	50.04	0.04	0.0004	20.0	50	10/14/2011
6	60.00	60.04	0.04	0.0004	20.0	50	10/14/2011
7	70.00	70.02	0.02	0.0002	20.0	50	10/14/2011
8	80.00	80.02	0.02	0.0002	20.0	50	10/14/2011
9	90.00	90.00	0.00	0.0000	20.0	50	10/14/2011
10	100.00	100.00	0.00	0.0000	20.0	50	10/14/2011

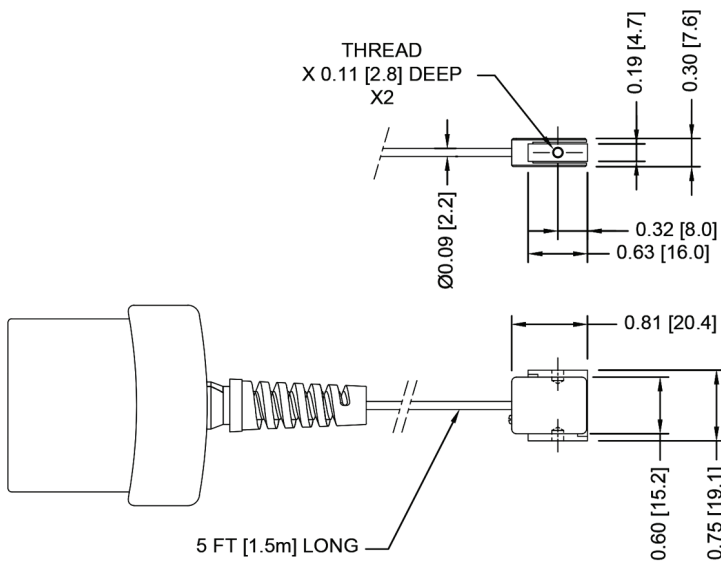
By: _____ Date: _____

Included certificate of calibration contains 10 data points in each measuring direction. A combined certificate for the sensor and an indicator is available at time of order, part no. CERT-SI.

Dimensions in [mm]



Model No.	Thread
MR04-025M	M3 x 0.5
MR04-2	#4-40 UNC
MR04-5	
MR04-10	
MR04-20	
MR04-50	
MR04-100	



Model No.	Thread
MR04-05M	M3 x 0.5
MR04-2M	
MR04-5M	
MR04-10M	
MR04-20M	
MR04-50M	
MR04-100M	

Capacity x Resolution

Model No.	With Models M71 & M51 indicators						With Model M31 indicator			
	lbF	ozF	gF	kgF	N	mN	lbF	gF	kgF	N
MR04-025M	0.25 x 0.0001	4 x 0.002	100 x 0.05	-	1 x 0.0005	1000 x 0.5	0.25 x 0.0002	100 x 0.1	-	1 x 0.001
MR04-05M	0.5 x 0.0002	8 x 0.005	250 x 0.1	-	2.5 x 0.001	2500 x 1	0.5 x 0.0005	250 x 0.2	-	2.5 x 0.002
MR04-2 / MR04-2M	2 x 0.001	32 x 0.02	1000 x 0.5	1 x 0.0005	10 x 0.005	-	2 x 0.002	-	1 x 0.001	10 x 0.01
MR04-5 / MR04-5M	5 x 0.002	80 x 0.05	2500 x 1	2.5 x 0.001	25 x 0.01	-	5 x 0.005	-	2.5 x 0.002	25 x 0.02
MR04-10 / MR04-10M	10 x 0.005	160 x 0.1	5000 x 2	5 x 0.002	50 x 0.02	-	10 x 0.01	-	5 x 0.005	50 x 0.05
MR04-20 / MR04-20M	20 x 0.01	320 x 0.2	10000 x 5	10 x 0.005	100 x 0.05	-	20 x 0.02	-	10 x 0.01	100 x 0.1
MR04-50 / MR04-50M	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
MR04-100 / MR04-100M	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