



Series R02 button type smart sensors are designed for compression measurement applications in virtually every industry. Compact and rugged, Series R02 sensors are ideal for heavy duty applications with space constraints. Capacities available from 100 to 10,000 lbF [500 N to 50 kN]. 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:	±0.5%, of full scale + indicator
Safe Overload:	150% of full scale
Weight:	MR02-100 - MR02-2000: 0.3 lb [0.1 kg] MR02-5000-MR02-10000: 0.5 lb [0.2 kg]

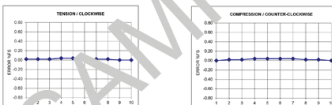
Features



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

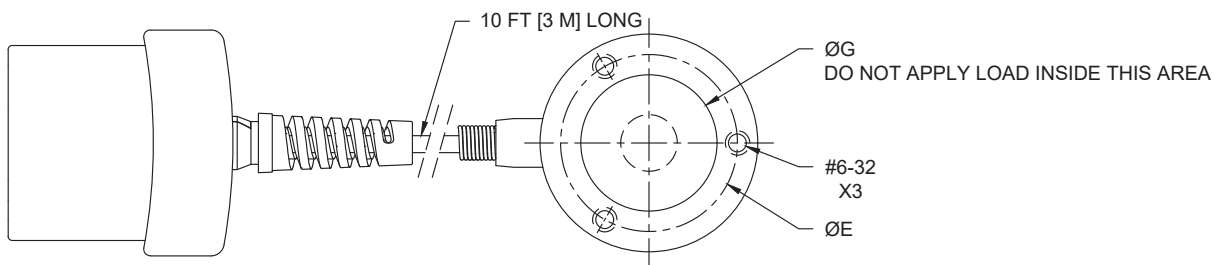
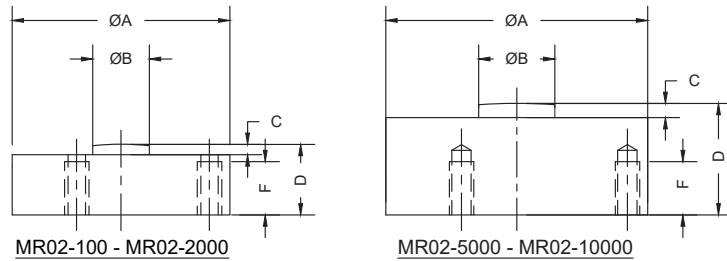


- ▲ The Plug & Test® connector locks into the receptacle in the indicator when fully inserted. Dual buttons on the indicator housing release the connector for easy removal. Gold plated spring contacts ensure long lasting and reliable connection.

Mark-10 Corporation 11 Dixon Avenue, Copaque, NY 11726 USA Tel: 631-642-0200 Email: info@mark-10.com		[P] [C] [A] [L] [I] [O]			
CERTIFICATE OF CALIBRATION					
LONG FORM					
MODEL NO.	M5-100	RELATIVE HUMIDITY (%)	47%		
SERIAL NO.	3543858	TEMPERATURE (°F)	70.0 °F		
DESCRIPTION	DIGITAL FORCE GAUGE	TOLERANCE (µF)	0.1		
CAPACITY	100 LBF	RESOLUTION	0.02		
READING NUMBER	MASTER	TENSION / CLOCKWISE	ERROR %FS	COM. TENSION / COUNTER C.	ERROR %FS
1	10.00	10.02	0.02	10.00	0.02
2	20.00	20.02	0.02	20.00	0.02
3	30.00	30.02	0.02	30.02	0.02
4	40.00	40.04	0.04	40.04	0.04
5	50.00	50.04	0.04	50.04	0.04
6	60.00	60.04	0.04	60.04	0.04
7	70.00	70.02	0.02	70.02	0.02
8	80.00	80.02	0.02	80.02	0.02
9	90.00	90.00	0.00	90.00	0.00
10	100.00	100.00	0.00	100.00	0.00
					
We hereby certify that the above instrument was calibrated according to procedures traceable to the National Institute of Standards and Technology (NIST), utilizing calibration equipment traceable to the requirements of ISO 9001:2008 and ISO/IEC 17025:2005. One or more of the below listed NIST traceability numbers apply.					
70714-D21	70714-D22	70714-D23	70714-D24	70714-D25	70714-D26
70718-A16	70714-D30	70714-D27	70718-A15	70718-A18	70718-D31
By: _____ Date: _____					

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

Dimensions in [mm]



Model No.	ØA	ØB	C	D	ØE	F	ØG
MR02-100 - MR02-2000	1.23 [31.2]	0.32 [8.1]	0.05 [1.3]	0.39 [9.9]	1.0 [25.4]	0.25 [6.4]	0.83 [21.1]
MR02-5000 - MR02-10000	1.48 [37.6]	0.43 [10.9]	0.07 [1.8]	0.62 [15.8]	1.25 [31.8]	0.27 [6.9]	1.08 [27.4]

Capacity x Resolution

Model No.	With Models M7I & M5I indicators						With Model M3I indicator			
	lbF	ozF	gF	kgF	N	kN	lbF	kgF	N	kN
MR02-100	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	-
MR02-200	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	-
MR02-500	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	-
MR02-1000	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	-
MR02-2000	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	-
MR02-5000	5000 x 2	-	-	2500 x 1	25000 x 10	25 x 0.01	5000 x 5	2500 x 2	-	25 x 0.02
MR02-10000	10000 x 5	-	-	5000 x 2	50000 x 25	50 x 0.02	10000 x 10	5000 x 5	-	50 x 0.05