



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.

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.

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CERTIFICATE OF CALIBRATION

LONG FORCE

MODEL NO. M5-100	RELATIVE HUMIDITY (%) 47%
SERIAL NO. 3543852	TEMPERATURE (°F) 70.0 °F
DESCRIPTION: DIGITAL FORCE GAUGE	TOLERANCE (µm) 0.1
CAPACITY: 100 LBF	RESULT: ± 0.02

READING NUMBER	MASTER READING	TENSION / CLOCKWISE	ERROR %FS	COMPARISON / COUNTERCLOCKWISE	ERROR %FS
1	10.00	10.02	0.02	10.00	0.00
2	20.00	20.02	0.02	20.00	0.02
3	30.00	30.02	0.02	30.00	0.02
4	40.00	40.04	0.04	40.04	0.04
5	50.00	50.04	0.04	50.00	0.04
6	60.00	60.04	0.04	60.04	0.04
7	70.00	70.02	0.02	70.04	0.04
8	80.00	80.02	0.02	80.02	0.02
9	90.00	90.00	0.00	90.02	0.02
10	100.00	100.00	0.00	100.00	0.00

TENSION - CLOCKWISE

COMPRESSION - COUNTERCLOCKWISE

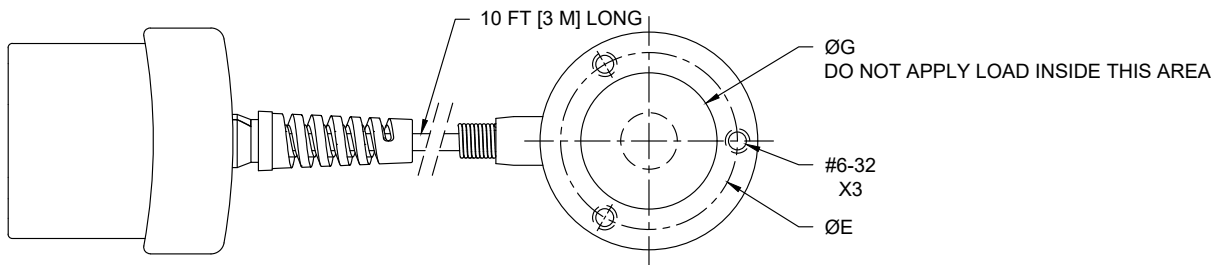
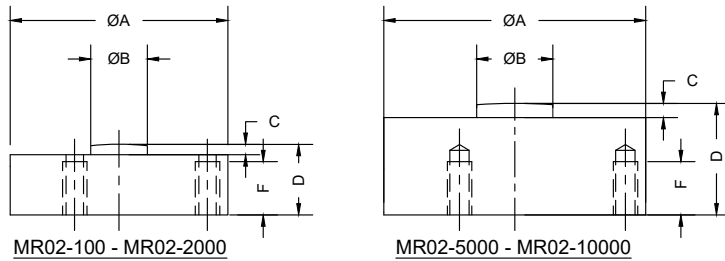
We hereby certify that the above instrument was calibrated according to procedures traceable to the National Institute of Standards & Technology (NIST), utilizing calibration equipment traceable to the requirements of ISO 9001:2008 and ISO/IEC 17025:2005. One or more of the below listed NIST traceability numbers apply.

70714-D21 70714-D22 70714-D23 70714-D24 70714-D25 70714-D26
70118-A16 70714-D30 70714-D27 70118-A15 70714-D31

By: _____ Date: _____

Included certificate of calibration contains 10 data points.

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 7i & 5i indicators						With Model 3i 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