

REC ROD END LOAD CELL (U.S. & METRIC)

FEATURES & BENEFITS

- Capacities from 1K to 50K lbf (5 to 220 kN)
- Proprietary Interface temperature compensated strain gages
- Stainless steel construction (1K lbf or 5 kN is aluminum)
- Low deflection

OPTIONS

- 5K-50K: MS3102E-14-5P connector optional
- Standardized output
- Special temperature range
- Custom calibration
- Transducer Electronic Data Sheet (TEDS)
- Standardized output

ACCESSORIES

- Instrumentation
- Mating connector

STANDARD CONFIGURATION



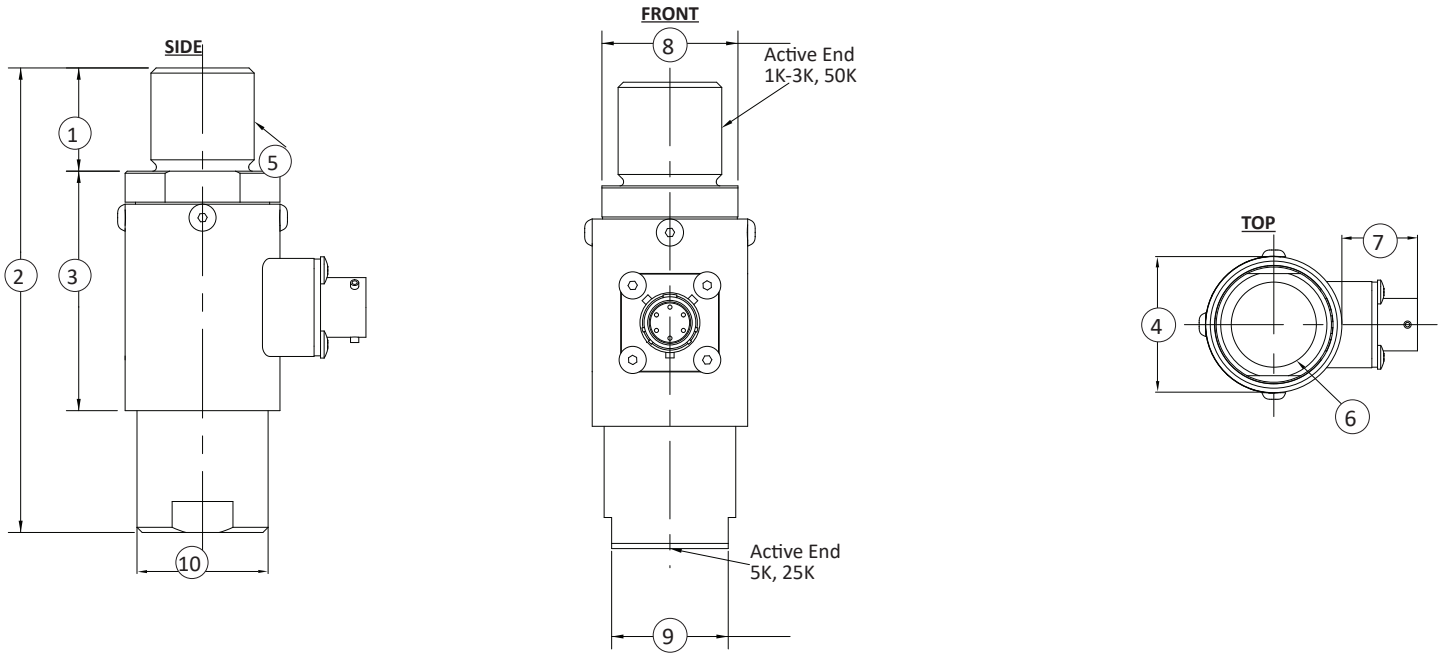
Model REC-5K (Shown)

SPECIFICATIONS

CAPACITY	lbf	1K	2K	3K	5K	10K	15K	20K	25K	50K
	kN	5	10	13	22	45	67	90	110	220
ACCURACY – (MAX ERROR)										
Nonlinearity – %FS										±0.25
Hysteresis – %FS										±0.15
Nonrepeatability – %FS										±0.05
TEMPERATURE										
Compensated Range	°F									+60 to +160
	°C									+15 to +72
Operating Range	°F									-60 to +200
	°C									-50 to +93
Effect on Output – % / deg	°F									±0.005
	°C									±0.01
Effect on Zero – %RO / deg	°F									±0.005
	°C									±0.01
ELECTRICAL										
Rated Output – mV/V (nominal)	lbf	1.7 ± 0.3								2.00 ± 0.20
	kN	2.0 ± 0.4								
Zero Balance – %RO										±3
Bridge Resistance – Ohm (nominal)										350
Excitation Voltage – VDC MAX										15
MECHANICAL										
Calibration										T & C
Safe Overload – %RO										150
Deflection	in	0.0005	0.0012	0.0013	0.0018	0.0024	0.0026	0.0028	0.003	0.0042
	mm	0.0127	0.03048	0.03302	0.04572	0.06096	0.06604	0.07112	0.0762	0.10668
Weight	lbs	0.4			1.0				1.4	5.5
	kg	0.18			0.45				0.63	2.49
Material		Aluminum								Stainless steel

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DIMENSIONS

See Drawing	CAPACITY							
	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)
	1K, 2K, 3K	5, 10, 13	5K, 10K	22, 45	15K, 20K 25K	67, 90, 110	50K	220
	in	mm	in	mm	in	mm	in	mm
(1)	1.00	25.4	1.00	25.4	1.00	25.4	1.50	38.1
(2)	4.25	108	4.50	114.3	4.50	114.3	7.00	177.8
(3)	N/A	N/A	2.32	58.9	2.32	58.9	N/A	N/A
(4)	N/A	N/A	Ø1.50	Ø38.1	Ø1.73	Ø43.9	N/A	N/A
(5)	¾-16 UNF-3A		1-14 UNS-2A		1-14 UNS-2A		1½-12 UNF-2A	
(6)	¾-16 UNF-2B		1-14 UNS-2B		1-14 UNS-2B		1½-12 UNF-2B	
	↓ 0.88	↓ 22.4	↓ 1.0	↓ 25.4	↓ 1.0	↓ 25.4	↓ 1.5	↓ 38.1
(7)	0.83	21.1	0.83	21.1	0.85	21.6	0.71	18
(8)	1.13	28.7	1.31	33.3	1.50	38.1	1.75	44.5
	Wrench Flats							
(9)	1.31	33.3	1.13	28.7	1.31	33.3	2.25	57.2
	Wrench Flats							
(10)	Ø1.50	Ø38.1	Ø1.27	Ø32.3	Ø1.50	Ø38.1	Ø2.50	Ø63.5