

# 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



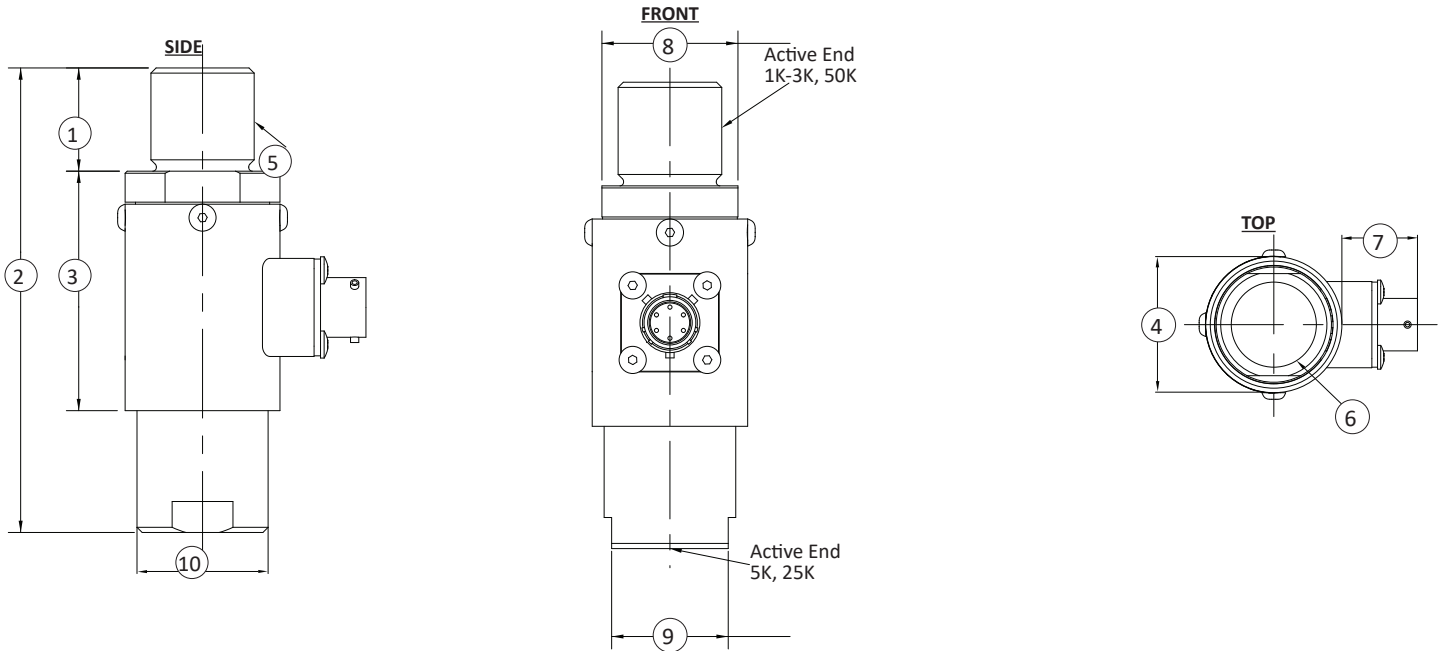
Model REC-5K (Shown)

## SPECIFICATIONS

CAPACITY	lbf	1K	2K	3K	5K	10K	15K	20K	25K	50K
	kN	5	10	13	22	45	67	90	110	220
<b>ACCURACY – (MAX ERROR)</b>										
Nonlinearity – %FS										±0.25
Hysteresis – %FS										±0.15
Nonrepeatability – %FS										±0.05
<b>TEMPERATURE</b>										
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
<b>ELECTRICAL</b>										
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
<b>MECHANICAL</b>										
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



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U.S. dimensions and capacities are provided for conversion only. Standard products have International System of Units (SI) capacities and dimensions.