

Model RT15S and RT16S

SPECIFICATIONS

PARAMETERS	MODEL STANDARD
ACCURACY – (MAX ERROR)	
Combined Error % F.S.	$\leq \pm 0.1$
Nonlinearity % F.S.	$\leq \pm 0.1$
Hysteresis % F.S.	$\leq \pm 0.1$
Nonrepeatability % F.S.	$\leq \pm 0.05$
Stability, 6 MTHS % F.S.	$\leq \pm 0.15$
Rotational Effect on Zero % F.S.	$\leq \pm 0.05$
TEMPERATURE	
Zero % of F.S./deg. F.	$\leq \pm 0.002$
Span % of RDG./deg.F.	$\leq \pm 0.002$
Compensated Range	+75 to + 175 deg F
Usable Range	-25 to + 185 deg F
Storage Range	-65 to + 225 deg F
ELECTRICAL	
Fully bi-directional, dual output with common characteristics, as follows	
Clockwise (CW) Torque ¹	+1.5 mV/V
Counterclockwise (CCW) Torque ¹	-1.5 mV/V
Zero Balance	$\pm 1\%$ of F.S., nominal
Excitation	3 - 6 V rms, 3 kHz $\pm 10\%$ sine wave capable of driving a 90 ohm bridge
Readout	strain gage carrier amplifier

MODEL	TORQUE RANGE (lb-in)	TORQUE OVERLOAD (lb-in)	MAX SPEED (rpm)	STIFFNESS* (lb-in/radian)	INERTIA (oz-in/sec.)	MAX WT. (lbs)
RT15S	50	100	0 to $\pm 15,000$	5,570	0.15	13
RT15S	100	200	0 to $\pm 15,000$	15,000	0.15	13
RT15S	200	400	0 to $\pm 15,000$	54,500	0.15	13
RT15S	500	1,000	0 to $\pm 15,000$	94,500	0.15	13
RT15S	1,000	2,000	0 to $\pm 15,000$	145,000	0.15	13
RT16S	1,000	2,000	0 to $\pm 10,000$	247,000	0.16	14
RT16S	2,000	4,000	0 to $\pm 10,000$	428,000	0.16	14
RT16S	5,000	10,000	0 to $\pm 10,000$	486,000	0.16	14
RT16S	10,000	20,000	0 to $\pm 10,000$	613,000	0.17	14

MODEL	TORQUE RANGE	MAXIMUM OVERHUNG MOMENT (WXD)	SPLINE DATA	DIMENSION L (inch)
RT15S	All	2,000 lb-in	16 teeth, 20/30 D.P.	8 17/32
RT16S	All	2,000 lb-in	24 teeth, 20/30 D.P.	9 3/32

