

Rotating Torque Sensors

01325 Series (square)

ROTARY SOCKET TORQUE SENSOR

These strain gage based sensors are designed to accurately measure torque in rotating applications such as in bolt fastening systems. Other typical uses include checking calibration in both mechanical torque wrenches and air powered nut runners. The design incorporates a coin silver slip ring assembly. This transmits excitation voltage to, and output signals from, the rotating square drive sensor. These sensors come standard with Auto-ID, which eliminates scaling when used with the PMAC 2000 instrument. An angle encoder and round or square housings are available with this model. Square housings have optional foot mounts.

SPECIFICATIONS

Capacity 50 in.lb. to 2,400 in.lb. (See chart)
 Overload capacity 150% of F.S.
 Output at F.S. See chart
 Non-linearity 0.10% of F.S.
 Hysteresis 0.10% of F.S.
 Zero balance..... 1.00% of F.S.
 Compensated temperature 70 to 170°F
 Useable temperature -65 to +250°F
 Temperature effect on zero 0.002% of F.S./°F
 Temperature effect on span 0.002% of Rdg./°F
 Bridge resistance 1000 Ohms
 Excitation voltage, maximum 20 Vdc
 Maximum shaft speed 5,000 RPM*

Material:

Shaft Alloy Steel
 Housing Aluminum

Square driving & spindle ends adhere to ANSI B107.4-1982



OPTIONS

- 4 pin Bendix connector (non Auto-ID)
- 10 pin Bendix connector (Auto-ID)
- Integral angle encoder - 1024 ppr or 60 tooth mag pick-up (10 pin connector required)
- Footmount
- Pulse tool brushes

*For higher rotational speeds, larger capacities and drive sizes, please contact factory.

DIMENSIONS (INCHES)

MODEL	CAPACITY			DRIVE SQUARE	X	Y	Z	OUTPUT
	FT LB	IN LB	NM					
01325-051	4	50	6	1/4	3.75	0.38	3.5	2.0 mV/V
01325-121	10	125	14	1/4	3.75	0.38	3.5	2.0 mV/V
01325-022	16	200	23	3/8	3.97	0.48	3.6	1.5 mV/V
01325-062	50	600	68					
01325-152	125	1500	170	1/2	4.25	.58	3.7	3.0 mV/V
01325-242	200	2400	271					

