

# Rotating Torque Sensors

## 01325 Series (hex)

### ROTARY SOCKET TORQUE SENSOR

An angle encoder and round or square housings are available with this model. Square housings have optional foot mounts. These strain gage based sensors are designed to measure torque in low capacity applications such as checking calibration in mechanical torque wrenches and air powered nut runners. The design incorporates a coin silver slip ring assembly that transmits excitation voltage to, and output signals from, the rotating drive sensor. These sensors can be supplied with Auto-ID, which eliminates scaling when used with the PMAC 2000 instrument.



### SPECIFICATIONS

Capacity..... 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 speed ..... 5000 RPM\*

Material:

Shaft..... Alloy Steel  
 Housing..... Aluminum

### 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 (requires 10 pin connector)
- Footmount

### DIMENSIONS

MODEL	CAPACITY			DRIVE SIZE	OUTPUT
	IN-LB	FT-LB	NM		
01325-051	50	4	6	1/4" Hex	2.0 mV/V
01325-021	125	10	14		3.0 mV/V

