

Model Number 039050-50101	ROTARY TORQUE, W/ AUTO ID				Revision: NR ECN #: 38721
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Measurement Range(Full Scale Capacity)	100 lbf-ft	136 Nm		Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Sensitivity(output at rated capacity)	2.0 mV/V	2.0 mV/V	[5]		
Non-Linearity	≤ 0.25 % FS	≤ 0.25 % FS	[2]		
Hysteresis	≤ 0.25 % FS	≤ 0.25 % FS	[2]		
Non-Repeatability	≤ 0.05 % FS	≤ 0.05 % FS	[2]		
Interchangeability	≤ 0.30 % FS	≤ 0.30 % FS	[6][2]		
Environmental					
Overload Limit	150 lbf-ft	203 Nm		NOTES: [1] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS. [2] FS - Full Scale. [3] Matched with 43.575 kOhm Precision Resistor. [4] Over compensated temperature range. [5] Matched to ±0.25% F.S. [6] Matched for mV/V and shunt calibration. [7] See Outline Drawing 48350 for Complete Dimensions [8] Per ANSI B107.4 Specifications [9] See PCB Declaration of Conformance PS119 for details.	
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C			
Temperature Range(Compensated)	+70 to +150 °F	+21 to +66 °C			
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0018 %Reading/°C	[4]		
Temperature Effect on Zero Balance(Maximum)	± 0.002 %FS/°F	± 0.0018 %FS/°C	[4]		
Electrical					
Bridge Resistance	350 Ohm	350 Ohm			
Excitation Voltage	10 VDC	10 VDC	[1]		
Insulation Resistance	≥ 5 GOhm	≥ 5 GOhm			
Zero Balance	≤ 2 % FS	≤ 2 % FS	[2]		
Shunt Calibration	≤ 0.25 % FS	≤ 0.25 % FS	[3][2]		
Auto ID	TTL Proprietary	TTL Proprietary		SUPPLIED ACCESSORIES: Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm	
Physical				OPTIONAL ACCESSORIES: Model 080920-01000 MODEL 920 PORTABLE DIGITAL INSTRUMENT Model 080962-01000 MODEL 962 DATA RECORDER Model 097000-34445 INTERCONNECT CABLE Model 4242R-000630 MATING CONNECTOR PT06A-12-10S(SR)	
Size (Shaft Length x Housing Length x Housing Height)	3.23 in x 2.30 in x 2.00 in	82.0 mm x 58.4 mm x 50.8 mm	[7]		
Weight	.85 lb	386 gm			
Mounting	1/2 inch Sq Drive	12.7 mm Sq Drive	[8]		
Sensing Element	Strain Gage	Strain Gage			
Housing Material	Aluminum	Aluminum			
Shaft Material	Steel	Steel			
Electrical Connector	PT02H-12-10P	PT02H-12-10P			
Maximum Speed	2500 RPM	2500 RPM			
 [9]					
	<i>All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice.</i>				
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