

Model Number 039025-50101	ROTARY TORQUE, W/AUTO ID				Revision: NR ECN #: 38721
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Measurement Range(Full Scale Capacity)	100 lbf-in	11.3 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					NOTES:
Overload Limit	150 lbf-in	16.9 Nm			[1] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C			[2] FS - Full Scale.
Temperature Range(Compensated)	+70 to +150 °F	+21 to +66 °C			[3] Matched with 43.575 kOhm Precision Resistor.
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0018 %Reading/°C		[4]	[4] Over compensated temperature range.
Temperature Effect on Zero Balance(Maximum)	± 0.002 %FS/°F	± 0.0018 %FS/°C		[4]	[5] Matched to ±0.25% F.S.
Electrical					[6] Matched for mV/V and shunt calibration.
Bridge Resistance	350 Ohm	350 Ohm			[7] See Outline Drawing 45187 for Complete Dimensions
Excitation Voltage	10 VDC	10 VDC		[1]	[8] Per ANSI B107.4 Specifications
Insulation Resistance	≥ 5 GOhm	≥ 5 GOhm			[9] See PCB Declaration of Conformance PS119 for details.
Zero Balance	≤ 2 % FS	≤ 2 % FS		[2]	
Shunt Calibration	≤ 0.25 % FS	≤ 0.25 % FS		[3][2]	
Auto ID	TTL Proprietary	TTL Proprietary			
Physical					SUPPLIED ACCESSORIES:
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]	Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm
Weight	.75 lb	340 gm			OPTIONAL ACCESSORIES:
Mounting	1/4 inch Sq Drive	6.35 mm Sq Drive		[8]	Model 080920-01000 MODEL 920 PORTABLE DIGITAL INSTRUMENT
Sensing Element	Strain Gage	Strain Gage			Model 080962-01000 MODEL 962 DATA RECORDER
Housing Material	Aluminum	Aluminum			Model 097000-34445 INTERCONNECT CABLE
Shaft Material	Steel	Steel			Model 4242R-000630 MATING CONNECTOR PT06A-12-10S(SR)
Electrical Connector	PT02H-12-10P	PT02H-12-10P			
Maximum Speed	5000 RPM	5000 RPM			
 [9] 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.					Entered: DMW
					Engineer: JM
					Sales: DM
					Approved: PE
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