

Model Number 039075-53601	ROTARY TORQUE, W/AUTO ID				Revision: NR ECN #: 38721
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Measurement Range(Full Scale Capacity)		600 lbf-ft	814 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		
Non-Linearity		≤ 0.25 % FS	≤ 0.25 % FS		
Hysteresis		≤ 0.25 % FS	≤ 0.25 % FS		
Non-Repeatability		≤ 0.05 % FS	≤ 0.05 % FS		
Interchangeability		≤ 0.30 % FS	≤ 0.30 % FS	[6][2]	
Environmental				NOTES:	
Overload Limit		900 lbf-ft	1220 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] Over compensated temperature range.	
Temperature Effect on Zero Balance(Maximum)		± 0.002 %FS/°F	± 0.0018 %FS/°C	[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 LT38038 for Complete Dimensions	
Excitation Voltage		10 VDC	10 VDC	[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		
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)		4.13 in x 2.69 in x 2.94 in	104.9 mm x 68.3 mm x 74.7 mm	Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm	
Weight		2.2 lb	1000 gm	OPTIONAL ACCESSORIES:	
Mounting		3/4 inch Sq Drive	19.05 mm Sq Drive	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		2000 RPM	2000 RPM		
					
<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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