

	ENGLISH	SI	
<b>Performance</b>			
Measurement Range(Full Scale Capacity)	148 lbf-ft	200 Nm	
Sensitivity(output at rated capacity)	2.0 mV/V	2.0 mV/V	[7]
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	[8][2]
<b>Environmental</b>			
Overload Limit	221 lbf-ft	300 Nm	
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	[6]
Temperature Effect on Zero Balance(Maximum)	± 0.002 %FS/°F	± 0.0018 %FS/°C	[6]
<b>Electrical</b>			
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]
Counts Per Revolution	1440	1440	[3]
Resolution w/ Quadrature	1/4 °	1/4 °	[3]
Output Voltage	High 5V to Low 0.5V	High 5V to Low 0.5V	[3]
Power Required(maximum)	5 VDC @ 120mA	5 VDC @ 120mA	[3]
Magnetic Encoder(Poles)	360	360	[3]
Magnetic Encoder(Output)	See Note	See Note	[4][3]
Shunt Calibration	≤ 0.25 % FS	≤ 0.25 % FS	[5][2]
Auto ID	TTL Proprietary	TTL Proprietary	
<b>Physical</b>			
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	[9]
Weight	.85 lb	386 gm	
Mounting	1/2 inch Sq Drive	12.7 mm Sq Drive	[10]
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	

**OPTIONAL VERSIONS**

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**NOTES:**

[1] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.  
 [2] FS - Full Scale.  
 [3] Magnetic Encoder Specifications.  
 [4] A-B Track 90° Phase Difference, Flat Over Operating Speed  
 [5] Matched with 43.575 kOhm Precision Resistor.  
 [6] Over compensated temperature range.  
 [7] Matched to ±0.25% F.S.  
 [8] Matched for mV/V and shunt calibration.  
 [9] See Outline Drawing 48350 for Complete Dimensions  
 [10] Per ANSI B107.4 Specifications  
 [11] See PCB Declaration of Conformance PS119 for details.

**SUPPLIED ACCESSORIES:**  
 Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm

**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)

Entered: DMW	Engineer: JM	Sales: DM	Approved: PE	Spec Number:
Date: 3/14/2012	Date: 3/14/2012	Date: 3/14/2012	Date: 3/14/2012	<b>51942</b>



[11]



**PCB LOAD & TORQUE**  
A PCB GROUP COMPANY

**PCB Load & Torque, Inc.**  
 24350 Indoplex Circle  
 Farmington Hills, MI 48335  
 UNITED STATES  
 Phone: 866-684-7107  
 Fax: 716-684-0987  
 E-Mail: [ltinfo@pcbloadtorque.com](mailto:ltinfo@pcbloadtorque.com)  
 Web site: <http://www.pcbloadtorque.com>

*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.*