

Model Number  
027250-07101

# HAND TORQUE ANGLE WRENCH

Revision: E  
ECN #: 53170

Performance	ENGLISH	SI	
Measurement Range(Full Scale Capacity)	100 lbf-ft	136 Nm	
Sensitivity(output at rated capacity) (0.25%FS)	2 mV/V	2 mV/V	[1]
Non-Linearity	≤ 0.25 % FS	≤ 0.25 % FS	[2]
Hysteresis	≤ 0.25 % FS	≤ 0.25 % FS	[2]
Interchangeability	≤ 0.30 % FS	≤ 0.30 % FS	[3]
Overload Capacity	150 % F.S.	150 % F.S.	
Drive Size	1/2 inch Square	1/2 inch Square	[4]
Quadrature Output	2950 Counts/Rev	2950 Counts/Rev	[1]
Quadrature Output Voltage	0 to 5V	0 to 5V	
Angle Resolution	0.125 degrees	0.125 degrees	
<b>Environmental</b>			
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)	± 0.01 %RO/°F	± 0.018 %RO/°C	
Temperature Effect on Zero	± 0.01 %FS/°F	± 0.018 %FS/°C	
<b>Electrical</b>			
Isolation Resistance	≥ 1G Ohm	≥ 1G Ohm	
Bridge Resistance	350 Ohm	350 Ohm	
Excitation Voltage(Recommended)	10 VDC or VAC rms	10 VDC or VAC rms	
Zero Balance	≤ 2 % FS	≤ 2 % FS	
Shunt Calibration	2 mV/V	2 mV/V	[5]
Angle Power	+ 5 VDC	+ 5 VDC	
Output Polarity	cw+	cw+	
<b>Physical</b>			
Size - Length	22.63 in	574.8 mm	[4]
Weight	1.8 lb	0.8 kg	
Mating Connector	PT06A-12-10S	PT06A-12-10S	
Connector	DT02H-12-10P	DT02H-12-10P	
Color Code	Blue	Blue	
Socket Retaining Type	Ball/Spring	Ball/Spring	

## 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]Nominal.
- [2]FS - Full Scale.
- [3]Matched for mV/V and shunt calibration.
- [4]See Drawing 50913 for Complete Dimensions
- [5]2 mV/V with 43.575 kOhm precision resistor.
- [6]See PCB Declaration of Conformance PS117 for details.

## SUPPLIED ACCESSORIES:

Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm

## OPTIONAL ACCESSORIES:

Model 080922-01000 MODEL 922 DIGITAL PEAK METER  
 Model 080962-01000 MODEL 962 DATA RECORDER  
 Model 097000-34445 INTERCONNECT CABLE  
 Model 4242R-000630 MATING CONNECTOR PT06A-12-10S(SR)



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: ND	Engineer: NJN	Sales: DM	Approved: JM	Spec Number:
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