.....≤±0.002 ....+75 to +175 ....-65 to +225 .....15



## Models 2208 and 2209 Compact, High Capacity Square Drive Reaction Torquemeters

hese strain gage torquemeters are calibrated CW and CCW to full rated load in our NVLAP accredited laboratory (Lab Code 200487-0\*). A NVLAP approved Calibration Certificate documenting NIST traceability is supplied. Their low weight and compact size simplify installation and handling.

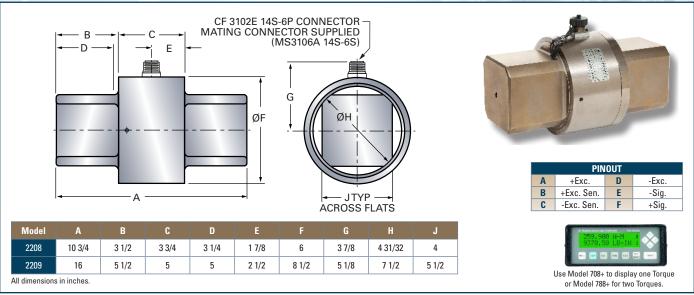
The design yields high stiffness, very high overload and high extraneous load capacity. See Bulletin 770 for reaction torque measurement theory and definition of extraneous loads.

\*See our website or follow the "Lab Accreditation" link at www.NIST.gov for details.

## **Standard Ratings**

							Maximum	Maximum Extraneous Loads	
	Torque Range		Torque Overload		Torsional Stiffness <sup>1</sup>		Weight	Thrust (F) <sup>2</sup>	Bending Moment <sup>2</sup>
Model No.	(lbf-in)	(N-m)	(lbf-in)	(N-m)	(lbf-in/rad)	(N-m/rad)	(lb)	(lb)	(lbf-in)
2208(3-5)	300,000	33,900	600,000	67,800	52,200,000	5,898,000	57	400,000	400,000
2208(6-5)	600,000	67,800	1,200,000	135,600	56,600,000	6,395,000			
2208(12-5)	1,200,000	135,600	2,400,000	271,000	57,200,000	6,460,000			
2209(18-5)	1,800,000	203,000	3,600,000	407,000	171,000,000	19,320,000	166	1,500,000	1,500,000
2209(24-5)	2,400,000	271,000	4,800,000	542,000	207,000,000	23,390,000			
2209(3-6)	3,000,000	339,000	6,000,000	678,000	220,000,000	24,856,000			

Notes: 1. Lonservatively rated **from end-to end**. 2. See Bulletin 770 for definition of extraneous loads.



## **Specifications**

Bridge Impedance: (Ohms, Nominal)	Temperature Effects
<b>Output:</b> (mV/V, Nominal)	Zero Drift: (% of Full Scale/Degree F)
Zero Unbalance: (% of Range)	Span Drift: (% of Reading/Degree F)
Nonlinearity: (% of Range) ≤0.25 except 0.5 for Model 2208(12-5)	Compensated Temperature Range: (Degrees F)
<b>Hysteresis:</b> (% of Range) ≤0.25 except 0.5 for Model 2208(12-5)	Usable Temperature Range: (Degrees F)
Nonrepeatability: (% of Full Scale)≤±0.05	Maximum Excitation: (Volts, ac or dc)

Specifications and dimensions are subject to change without notice. Certified drawings are available on request.

## S. Himmelstein and Company

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