

MODELS 2206 & 2207 PRECISION, HIGH CAPACITY SOLID FLANGED REACTION TORQUEMETERS

These high accuracy Torquemeters have very high stiffness, and handle large extraneous loads with low crosstalk. All are **calibrated CW and CCW to rated load in our NVLAP*accredited laboratory**. A NVLAP approved Calibration Certificate documents NIST traceability. Choose either a mV/V (M suffix) or ± 10V (V suffix) output.

- 300,000 - 750,000 lbf-in ranges; (33.9 - 84.8 kNm)
- 200 percent overload rating
- ±2 mV/V or ±10V output
- traceable*, full load bi-directional calibration
- handles high extraneous loads without de-rating
- high stiffness, short length, low crosstalk

*NIST Traceable Calibration performed in our NVLAP Accredited Laboratory (NVLAP Code 200487-0). For details visit www.himmelstein.com or follow the accreditation link at www.nist.gov

Standard Ratings

(See Bulletin 770 for the theory of reaction torque measurement and for definitions of extraneous loads.)

| MODEL NO. ¹ | TORQUE RANGE | | TORQUE OVERLOAD | | TORSIONAL STIFFNESS ² | | WEIGHT (lb) | MAXIMUM EXTRANEOUS LOADS ³ | | | |
|------------------------|--------------|-------|-----------------|-------|----------------------------------|-----------|----------------|---------------------------------------|------|-------------------------------------|-------|
| | (lbf-in) | (kNm) | (lbf-in) | (kNm) | (lbf-in/rad) | (kNm/rad) | | THRUST (F) ³ | | BENDING MOMENT (W X D) ³ | |
| | | | | | | | | (lbf) | (kN) | (lbf-in) | (kNm) |
| 2206_(3-5) | 300,000 | 33.90 | 600,000 | 67.8 | 103,000,000 | 11,600 | 215 | 55,000 | 245 | 120,000 | 13.6 |
| 2206_(5-5) | 500,000 | 56.50 | 1,000,000 | 113 | 139,000,000 | 15,700 | | 80,000 | 356 | 200,000 | 22.6 |
| 2207_(6-5) | 600,000 | 67.80 | 1,200,000 | 136 | 189,000,000 | 21,400 | 252 | 90,000 | 400 | 240,000 | 27.1 |
| 2207_(75-4) | 750,000 | 84.75 | 1,500,000 | 170 | 209,000,000 | 23,600 | | 105,000 | 467 | 300,000 | 33.9 |

NOTES: 1. To designate the output, replace the underscore with an M or V. 2. Rated from flange-to-flange. 3. May be applied simultaneously with rated Torque; see Bulletin 770 for definitions.

| DIM | 2206M | 2207M |
|-----|--------|--------|
| A | 14 | 15 |
| B | 1.020 | 1.520 |
| C | 11.000 | 12.000 |

PINOUT

| PIN | FUNCTION |
|-----|-------------|
| A | + EXC. |
| B | + EXC. SEN. |
| C | - EXC. SEN. |
| D | - EXC. |
| E | - SIG. |
| F | + SIG. |

Use Model 708 to display one Torque or Model 788 for two Torques.

Specifications

Bridge Impedance: (Ohms, Nominal) 350
Nominal Output: M Suffix ± 2 mV/V, V Suffix ± 10V
Zero Unbalance: (% of Full Scale) ≤ ± 1
Combined Nonlinearity & Hysteresis: (% of Range) ≤ ± 0.1
Nonrepeatability: (% of Range) ≤ ± 0.05
Zero Drift: (% of Range/°F) M Suffix ≤ ± 0.002, V Suffix ≤ ± 0.003
Span Drift: (% of Rdg/°F) M Suffix ≤ ± 0.002, V Suffix ≤ ± 0.003

Compensated Range: (°F) + 75 to + 175
Usable Range: (°F) M Suffix - 65 to + 225, V Suffix - 65 to + 185
Excitation: (volts) M Suffix 5 to 15 ac or dc, V Suffix 13.5 to 24 dc
Extraneous Load Crosstalk: (% of Range, Typical) 1
Overrange: M Suffix external amplifier dependent, V Suffix 30% nominal
Compatible Readout: Himmelstein Model 708; see Bulletin 379

Specifications and dimensions are subject to change without notice.

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