Reaction Torque
0-25 oz-inch to 0-250 inch-lb
0-0.18 N·m to 0-30 N·m

TQ202/TQM202 Series

- All Stainless Steel Case for Long-Term Reliability in Industrial Environments
- High Accuracy
- Shielded Cable for Precise Low-Noise Measurements
- Heavy-Duty Mounting for Positive, Non-Slip Connection

OMEGA’s TQ202/TQM202 Series torque sensors are small, high-accuracy flange- or surface-mount devices designed for measuring reaction torque forces up to 250 inch-lb. The shaft attachment has 3 equally spaced flat surfaces to ensure non-slip mounting without the use of a key. The all stainless steel construction ensures long life in industrial environments, as well as long-term accuracy.

**SPECIFICATIONS**
- **Output:** 2 mV/V
- **Excitation:** 10 Vdc, 15V maximum
- **Input Resistance:** 360 Ω minimum
- **Output Resistance:** 350 ±5 Ω
- **Accuracy:** ±0.2% FSO (combined linearity, hysteresis and repeatability)
- **Zero Balance:** ±2% FSO
- **Compensated Temp Range:** 16 to 71°C (60 to 160°F)
- **Operating Temp Range:** -54 to 107°C (-65 to 225°F)
- **Thermal Effects:**
  - **Zero:** 0.005% FSO/°F
  - **Span:** 0.005% rdg/°F

**Safe Overload:** 150% of capacity  
**Ultimate Overload:** 300% of capacity

**Construction:** Stainless steel  
**Electrical:** 1.5 m (5’) 4-conductor shielded PVC cable with strain relief  
**Protection Class:** IP65

**Dimensions:** mm (inch)

**To Order**

<table>
<thead>
<tr>
<th>STANDARD RANGE</th>
<th>STANDARD MODEL NO.</th>
<th>METRIC RANGE</th>
<th>METRIC MODEL NO.</th>
<th>COMPATIBLE METERS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 25 oz-inch</td>
<td>TQ202-25Z</td>
<td>0 to 0.175 N·m</td>
<td>TQM202-0.175</td>
<td>DP41-S, DP25B-S</td>
</tr>
<tr>
<td>0 to 30 oz-inch</td>
<td>TQ202-30Z</td>
<td>0 to 0.20 N·m</td>
<td>TQM202-0.2</td>
<td>DP41-S, DP25B-S</td>
</tr>
<tr>
<td>0 to 100 oz-inch</td>
<td>TQ202-100Z</td>
<td>0 to 0.70 N·m</td>
<td>TQM202-0.7</td>
<td>DP41-S, DP25B-S</td>
</tr>
<tr>
<td>0 to 120 oz-inch</td>
<td>TQ202-120Z</td>
<td>0 to 0.85 N·m</td>
<td>TQM202-0.85</td>
<td>DP41-S, DP25B-S</td>
</tr>
<tr>
<td>0 to 150 oz-inch</td>
<td>TQ202-150Z</td>
<td>0 to 1.0 N·m</td>
<td>TQM202-1</td>
<td>DP41-S, DP25B-S</td>
</tr>
<tr>
<td>0 to 200 oz-inch</td>
<td>TQ202-200Z</td>
<td>0 to 1.4 N·m</td>
<td>TQM202-1.4</td>
<td>DP41-S, DP25B-S</td>
</tr>
<tr>
<td>0 to 25 inch-lb</td>
<td>TQ202-25</td>
<td>0 to 2.8 N·m</td>
<td>TQM202-2.8</td>
<td>DP41-S, DP25B-S</td>
</tr>
<tr>
<td>0 to 50 inch-lb</td>
<td>TQ202-50</td>
<td>0 to 5.6 N·m</td>
<td>TQM202-5.6</td>
<td>DP41-S, DP25B-S</td>
</tr>
<tr>
<td>0 to 100 inch-lb</td>
<td>TQ202-100</td>
<td>0 to 11 N·m</td>
<td>TQM202-11</td>
<td>DP41-S, DP25B-S</td>
</tr>
<tr>
<td>0 to 250 inch-lb</td>
<td>TQ202-250</td>
<td>0 to 28 N·m</td>
<td>TQM202-28</td>
<td>DP41-S, DP25B-S</td>
</tr>
</tbody>
</table>

Comes complete with 5-point calibration.  
* Visit us online for compatible meters.  
TQ202-100, 100 in-lb range reaction torque sensor.