Building on our success with the RWT Road Racing Sensor we have developed a version for motocross motorcycles. The RWT-MX is designed to be a self-contained sensor unit, the rear wheel torque transducer is a direct replacement for the rear wheel sprocket carrier. The innovative design allows torque to be measured at the rear wheel, enabling race teams to increase their knowledge, and develop their motorcycles in a way that was not possible before.

**FEATURES**

- Torque transducer is incorporated into a custom sprocket carrier creating a self-contained sensor unit.
- Rugged, lightweight aluminum housing fits into standard motocross size sprockets.
- All electric components are hermetically sealed.
- Inductive power system — uses no batteries.
- Wireless output signal to chassis mounted receiver unit.
- Fast data rates up to 750Hz.
- Design of torque transducer and receiver unit can be adapted to suit customers requirements.

**BENEFITS**

- Rear wheel torque and power measurement in real time.
- Use for engine development — assess where power is used thus allowing engine development strategies to be focused on Bike Dyno.
- Use for gear ratio selection — assess if ratios are providing optimum power at rear wheel.
- Use for rider knowledge — assess how rider applies power.
- Interchangeable between wheels.
- Adaptable design and easy to fit.

PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice.
**PART NUMBER CONFIGURATOR**

**Ordering Information:** Since this product is custom there is no standard configuration. Please contact KA Sensors to discuss your application and develop a configuration.

**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Material</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Sprocket Material</td>
<td>Aluminum, Replaceable (KA Supplied)</td>
</tr>
<tr>
<td>Sprocket Size</td>
<td>Standard MX Sizes Available: 48 to 53 Teeth</td>
</tr>
<tr>
<td>Receiver</td>
<td>Hub Mounted Coil Connected to a Remote Electronics Box</td>
</tr>
<tr>
<td>Water Resistance</td>
<td>Hermetically Sealed Electronics</td>
</tr>
<tr>
<td>Torque Range</td>
<td>+/- 500Nm (Higher Torque on Request)</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>8-16Vdc 200mA</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>0.5 to 4.5V</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/- 2% Typical</td>
</tr>
<tr>
<td>Output Frequency</td>
<td>750Hz</td>
</tr>
<tr>
<td>Operating Hours</td>
<td>Infinite</td>
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<tr>
<td>Operating Temperature</td>
<td>32°F to 155°F (0 to +70°C)</td>
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<tr>
<td>Electrical Connection</td>
<td>Deutsch ASX Autosport Connector</td>
</tr>
<tr>
<td>Data Logger Compatibility</td>
<td>All Common Including: 2D, Motec, Aim, Magneti Marelli</td>
</tr>
</tbody>
</table>

**MECHANICAL DETAILS**

Dimensions in inches

- Ø8.27”
- 0.40”

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**Sensors For:**
- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

**Services For:**
- Data Logging
- Telemetry
- Controls
- Wiring

**Contact Us**

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