

# RATE AND INERTIAL SENSORS



## RATE SENSORS AND GYROS



	<b>11206AC</b>	<b>11207AC</b>	<b>31206B/31207B</b>	<b>610</b>	<b>603</b>
<b>Package</b>	Electroless nickel plated Aluminum	Electroless nickel plated Aluminum	Electroless nickel plated Aluminum	Anodized aluminum	Anodized aluminum
<b>FS Ranges</b>	±50, ±180°/sec	±300°/sec	±50, ±180, ±1,000°/sec	±500 to ±50K°/sec	±100 to ±24K°/sec
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• IdentiCal™ interchangeable sensor</li> <li>• ±0.5% accuracy from -40°C to +85°C</li> <li>• Silicon MEMS gyro</li> <li>• EN61000-6-2/-4 certified for industrial environment</li> </ul>	<ul style="list-style-type: none"> <li>• IdentiCal™ interchangeable sensor</li> <li>• High stability</li> <li>• Low noise</li> <li>• Vibration-rejecting</li> </ul>	<ul style="list-style-type: none"> <li>• Triaxial angular rate sensor</li> <li>• Stable performance over temperature</li> <li>• Power supply regulation</li> <li>• Temperature calibration data</li> </ul>	<ul style="list-style-type: none"> <li>• Small, lightweight package</li> <li>• SAE-J211, ISO-6487, NHTSA approved</li> <li>• Crash testing certified</li> <li>• Insensitive to shock</li> </ul>	<ul style="list-style-type: none"> <li>• MEMS triaxial rate sensor</li> <li>• SAEJ211 compliant</li> <li>• Shock resistant housing</li> <li>• Rugged compact package</li> </ul>
<b>Accuracy</b>	±0.1% non-linearity	±0.01% non-linearity	±0.1% non-linearity	±0.5% non-linearity	±0.5% non-linearity
<b>Excitation Voltage</b>	8.5 - 36 VDC	10 - 36 VDC	8.5 - 36 VDC	5 - 16 VDC	5 - 16 VDC
<b>Operating Temp.</b>	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 105°C	-40°C to 105°C
<b>Dimensions (mm)</b>	24 x 24 x 27.30	24 x 24 x 27.30	24 x 24 x 28.30	14.6 x 10.2 x 7.6	20.8 x 20.8 x 14.5
<b>Typical Applications</b>	Wind turbine, weapons testing, test and measurement	Wind turbine, weapons testing, test and measurement	Weapons testing, boat stabilization, test and measurement	Automotive safety crash testing, roll-over testing, motor sports, biomechanics, weapons testing	Automotive safety crash testing, pedestrian impact, biomechanics, robotics

## 6 DEGREES OF FREEDOM SENSORS



### 633

<b>Package</b>	Stainless steel
<b>FS Ranges</b>	±500 to ±50K°/sec ±50g to ±6,000g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• Complete six degree-of-freedom (6DoF) analog sensor</li> <li>• Shock resistant rugged housing</li> <li>• Silicon MEMS gyros</li> <li>• PR MEMS high-g shock sensors</li> </ul>
<b>Accuracy</b>	±0.5% non-linearity
<b>Excitation Voltage</b>	5 - 16 VDC
<b>Operating Temp.</b>	-40°C to 105°C
<b>Dimensions (mm)</b>	21.3 x 21.3 x 15.2
<b>Typical Applications</b>	Aerospace testing, weapons testing, biomechanics, shock and impact testing



### 634

<b>Package</b>	Anodized aluminum
<b>FS Ranges</b>	±100 to ±18K°/sec ±2g to ±100g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• 6DoF analog sensor</li> <li>• Signal conditioned output</li> <li>• Silicon MEMS gyros</li> <li>• UltraStable VC MEMS low-g sensors</li> </ul>
<b>Accuracy</b>	±0.1% non-linearity
<b>Excitation Voltage</b>	5 - 16 VDC
<b>Operating Temp.</b>	-40°C to 105°C
<b>Dimensions (mm)</b>	30.5 x 30.5 x 24.6
<b>Typical Applications</b>	Automotive testing, motion measurements, biomechanics

## INERTIAL SENSORS



### 65210E

<b>Package</b>	Electroless nickel plated Aluminum
<b>FS Ranges</b>	±1K to ±20K°/sec, ±10g to ±100g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• 6DoF and telemetry kit</li> <li>• User configurable, IRIG encoder</li> <li>• Parabolic and radome ring mounting adaptor options</li> <li>• Up to 4hr battery options</li> </ul>
<b>Accuracy</b>	±0.2% non-linearity error
<b>Excitation Voltage</b>	Li-Ion battery included
<b>Operating Temp.</b>	-40°C to 85°C
<b>Dimensions (mm)</b>	Ø69.85 x 197.3 length
<b>Typical Applications</b>	Weapons separation testing, captive carry testing, GTV and JTV test vehicles



### 65210ES

<b>Package</b>	Electroless nickel plated Aluminum
<b>FS Ranges</b>	±1K to ±20K°/sec, ±10g to ±100g
<b>Unique Features</b>	<ul style="list-style-type: none"> <li>• 6DoF and telemetry kit</li> <li>• Parabolic and radome ring mounting adaptor options</li> <li>• AES encryption option</li> <li>• Wide range of signal conditioning modules</li> </ul>
<b>Accuracy</b>	±0.2% non-linearity error
<b>Excitation Voltage</b>	Li-Ion battery included
<b>Operating Temp.</b>	-40°C to 85°C
<b>Dimensions (mm)</b>	Ø69.85 x 161.3 length
<b>Typical Applications</b>	Weapons separation testing, captive carry testing, GTV and JTV test vehicles