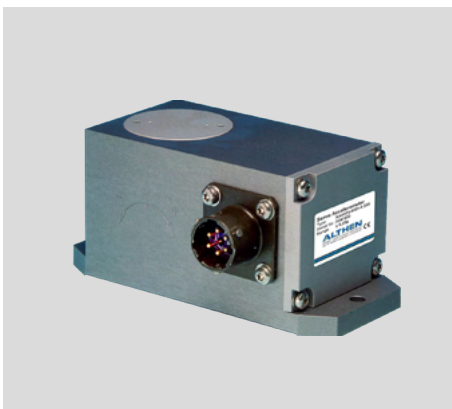




ACCELERATION SENSORS

Precise measurement of acceleration, vibration and shock



Your expert partner in sensors & controls

althensensors.com

ALTHEN
SENSORS & CONTROLS

ABOUT ALTHEN SENSORS & CONTROLS

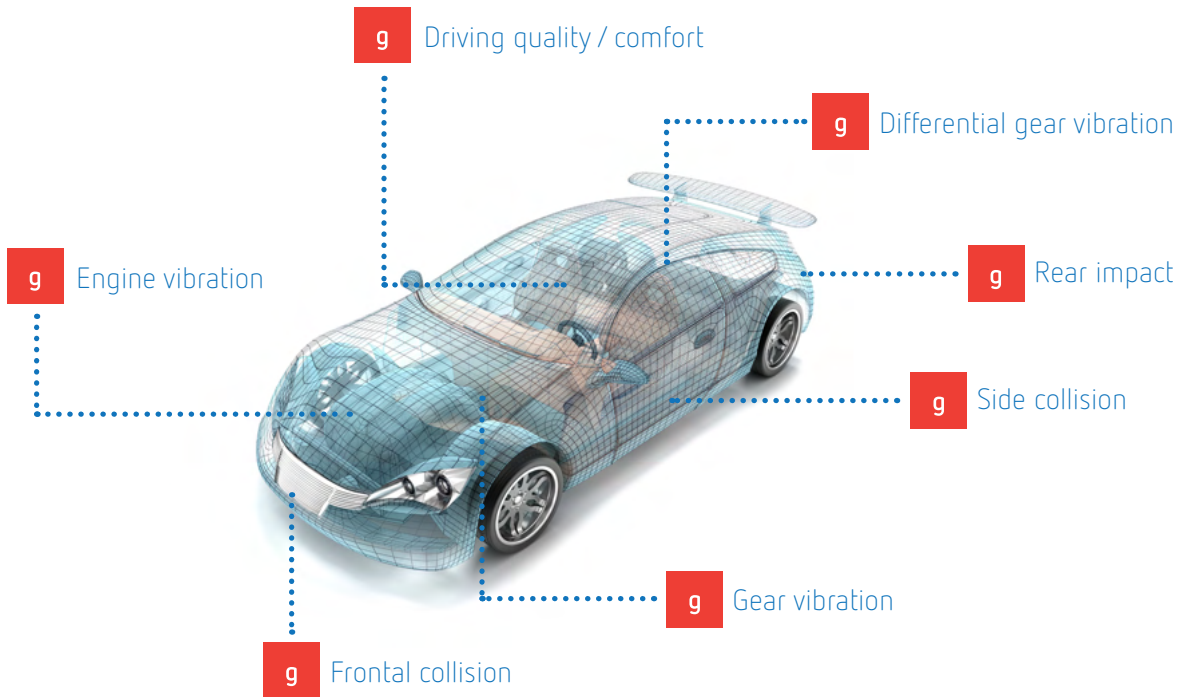
Althen Sensors & Controls stands for pioneering measurement and sensor solutions. We accept every measurement challenge. We are constantly looking for innovation and are only satisfied when we have found the perfect solution for your measurement task. We develop customer-specific solutions in our in-house production facilities. Althen is partner to many recognized universities and leading organizations. We find ourselves in an intensive knowledge transfer, developing future technologies. Althen is one of the first companies in its branch with a certification by the German technical inspection association in Hessen (TÜV PROFICERT) in accordance with DIN EN ISO 9001:2015.

OUR SERVICE FOR YOU

Are you facing a metrological challenge or do you need a suitable spare part for your application? Our specialists will advise you - in detail and professionally. We keep an eye on your costs and develop customer-specific special solutions if required. Benefit from our many years of experience in the field of measurement technology and sensor technology:

-  **High-quality Production**
-  **Measurement and Rental**
-  **Special Custom Calibration**
-  **Training & Consulting**





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Monitoring of stressed constructions
Sensor-based detection of material fatigue
on bridges caused by vibrations and corrosion.

SENSORS FOR BRIDGE AND
TUNNEL MONITORING

g ACCELERATION



g ACCELERATION

SENSORS FOR MONITORING OF
SEISMIC ACTIVITIES



ACCELERATION SENSORS

PRECISE MEASUREMENT OF ACCELERATION,
VIBRATION AND SHOCK









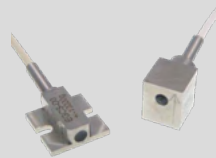

Althen acceleration sensors let you make precise measurements of vibration or shock for a variety of applications. They are used to measure vibration, shock, displacement, velocity, inclination, and tilt. The sensors are suitable for a wide range of applications including automotive, aerospace, transportation, construction, industrial robots, and laboratory testing. Our accelerometers are based on several technologies: piezoresistive, capacitive, piezoelectric as well as closed loop servo balanced systems. Among others, the sensors are based on MEMS, strain gauge and quartz technology.

All sensors are highly resistant against shock and vibration. They operate at frequencies of up to 25,000 Hz, with measurement ranges between ± 0.25 g and $\pm 70,000$ g, and can be deployed in temperatures ranging from -40°C to $+140^{\circ}\text{C}$.

Find the perfect acceleration sensor for your application. We'd be happy to help you choose!

Product Image	Model	Measurement Range	Frequency depending on measuring range	Temp.	Output (Supply Voltage)
SERVO ACCELEROMETERS					
	AAA220 Series Servo Accelerometer	± 1 g, ± 2 g, ± 5 g, ± 10 g, ± 20 g	DC to 90 / 150 Hz	-55 °C to +95 °C	± 5 V / 4-20 mA
	AAA260 Series Servo Accelerometer	± 1 g, ± 2 g, ± 5 g, ± 10 g, ± 20 g	DC to 90 / 150 Hz	-55 °C to +95 °C	± 5 V / 4-20 mA
	AAA320 Series Servo Accelerometer	± 0.1 g, ± 0.25 g, ± 0.5 g, ± 2 g	20 to 60 Hz	-18 °C to +70 °C	± 5 V / 4-20 mA ± 12 to ± 18 VDC
	LCF-200 Servo Accelerometer	± 0.5 g, ± 1 g, ± 2 g, ± 5 g	30 Hz	-40 °C to +80 °C	± 5 V / max. 15 mA ± 12 to ± 18 VDC
	LCF-2530 2-Axis Servo Accelerometer	± 0.25 g, ± 0.5 g, ± 1 g, ± 2 g, ± 5 g	30 Hz	-40 °C to +80 °C	± 5 V / max. 50 mA ± 12 to ± 18 VDC
	LCF-3500 3-Axis Servo Accelerometer	± 0.5 g, ± 2 g, ± 5 g,	30 Hz	-40 °C to +80 °C	± 5 V / ± 45 mA ± 12 to ± 18 VDC
	DXA-100/200 Precision Digital Accelerometer (linear)	± 0.25 g, ± 0.5 g, ± 0.87 g, ± 1 g, ± 2 g	30 Hz	-40 °C to +85 °C	RS-485-Interface (stan- dard) RS-422-Interface 10-30 VDC
	LCA-100 1-Axis Servo Accelerometer	± 0.5 g, ± 1 g, ± 2 g, ± 5 g	60 Hz	-55 °C to +85 °C	± 5 V / max. 25 mA ± 12 to ± 18 VDC

Product Image	Model	Measurement Range	Frequency depending on measuring range	Temp.	Output (Supply Voltage)
SINGLE AXIS ACCELEROMETERS					
	AAA640 MEMS Accelerometer	$\pm 1 \text{ g}, \pm 2 \text{ g}, \pm 3 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 20 \text{ g}$	700 Hz - 1.5 kHz	-40 °C to +100 °C	$\pm 5 \text{ VDC} \pm 2\%$ 6-32 VDC
	ASC 3511LN Capacitive Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}, \pm 400 \text{ g}$	0-1 kHz	-40 °C to +125 °C	$\pm 4 \text{ V}$ 18-30 VDC
	ASC 3521MF Capacitive Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 30 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}$	0-1.8 kHz	-40 °C to +125 °C	$\pm 2,7 \text{ V}$ 5-40 VDC
	ASC 4211LN Capacitive Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}, \pm 400 \text{ g}$	0-1 kHz	-20 °C to +80 °C	$\pm 4 \text{ V}$ 18-30 VDC
	ASC 4221MF Capacitive Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 30 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}$	0-1.8 kHz	-40 °C to +125 °C	$\pm 2,7 \text{ V}$ 5-40 VDC
	ASC 4311LN / ASC 4315LN Capacitive Accelerometers	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}, \pm 400 \text{ g}$	0-1 kHz	-40 °C to +100 °C	$\pm 4 \text{ V}$ 18-30 VDC
	ASC 4321MF / ASC 4325MF Capacitive Accelerometers	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 30 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}$	0-1.8 kHz	-40 °C to +125 °C	$\pm 2,7 \text{ V}$ 5-40 VDC
	ASC 4411LN / ASC 4415LN Capacitive Accelerometers	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}, \pm 400 \text{ g}$	0-1 kHz	-40 °C to +100 °C	$\pm 4 \text{ V}$ 18-30 VDC
	ASC 4421MF / ASC 4425MF Capacitive Accelerometers	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 30 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}$	0-1.8 kHz	-40 °C to +125 °C	$\pm 2,7 \text{ V}$ 5-40 VDC
	ASC OS -115LN Capacitive Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}, \pm 400 \text{ g}$	0-1 kHz	-15 °C to +70 °C / -55 °C to +125 °C	$\pm 4 \text{ V}$ 6-40 VDC

Product Image	Model	Measurement Range	Frequency depending on measuring range	Temp.	Output (Supply Voltage)
SINGLE AXIS ACCELEROMETERS					
	ASC OS-125MF Capacitive Accelerometer	± 2 g, ± 5 g, ± 10 g, ± 30 g, ± 50 g, ± 100 g, ± 200 g	0-1.8 kHz	-15 °C to +70 °C / -55 °C to +125 °C	± 2.7 V 5-40 VDC
	ASC CS-1711LN Capacitive Accelerometer	± 2 g, ± 5 g, ± 10 g, ± 50 g,	0-650 Hz	-20 °C to +70 °C	4-20 mA 8-30 VDC
	AMA MEMS Acceleration Sensor Series	± 2 g, ± 10 g	100 Hz	-55 °C to +100 °C	0-5 V / 4-20 mA 9-36 VDC
	DMA MEMS Acceleration Sensor Series	± 2 g, ± 10 g	400 Hz	-40 °C to +85 °C	RS-232 / RS-485 9-39 VDC
	EGAS Miniature Accelerometer	± 5 g, ± 10 g, ± 25 g, ± 50 g, ± 100 g, ± 250 g, ± 500 g, ± 1000 g, ± 2500 g	0-3.5 kHz	-40 °C to +120 °C	± 100 mV 2-15 VDC
	EGAXT Miniature Accelerometer	± 5 g, ± 10 g, ± 25 g, ± 50 g, ± 100 g, ± 250 g, ± 500 g, ± 1000 g, ± 2500 g	0-3 kHz	-40 °C to +120 °C	Ratiometric to Supply voltage 15 VDC
	EGCS-A2/B2 Miniature Accelerometer	± 5 g, ± 10 g, ± 25 g, ± 50 g, ± 100 g, ± 250 g, ± 500 g, ± 1000 g, ± 2500 g, ± 5000 g	0-4 kHz	-40 °C to +120 °C	± 5 VDC ± 15 VDC
	EGCS-D0/D1S Miniature Accelerometers	± 5 g, ± 10 g, ± 25 g, ± 50 g, ± 100 g, ± 250 g, ± 500 g, ± 1000 g, ± 2500 g, ± 5000 g, ± 10000 g	0-4 kHz	-40 °C to +100 °C	Ratiometric to Supply voltage 15 VDC
	JMA 100 MEMS Acceleration Sensor Series	± 0.5 g, ± 1 g, ± 1.5 g	100 Hz	-40 °C to +85 °C	± 0.5 / 0-5 V / 4-20 mA ± 12 - ± 18 VDC / 12-30 VDC

Product Image	Model	Measurement Range	Frequency depending on measuring range	Temp.	Output (Supply Voltage)
SINGLE AXIS ACCELEROMETERS					
	JMA 165 MEMS Accelerometer	$\pm 0.5 \text{ g}, \pm 1 \text{ g}$	100 Hz	-40 °C to +70 °C	$\pm 0.5 \text{ V}$ $\pm 12 - \pm 18 \text{ VDC}$
	4000A MEMS Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 20 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}$	0-1.5 kHz	-20 °C to +85 °C	$\pm 2 \text{ V}$ 8.5-36 VDC
	4312M3 MEMS Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 20 \text{ g}$	0-300 Hz	-40 °C to +85 °C	4-20 mA 7-24 VDC
	4801A MEMS Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 30 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}$	0-1 kHz	-55 °C to +125 °C	$\pm 2 \text{ V}$ 8-36 VDC
	QFA Quartz Accelerometer	$\pm 30 \text{ g}$	300 Hz	-55 °C to +180 °C	Depending on the external Load resistance ± 12 to $\pm 18 \text{ VDC}$
	QFM Quartz Accelerometer	$\pm 20 \text{ g}$	300 Hz	-40 °C to +180 °C	Depending on the external Load resistance ± 12 to $\pm 18 \text{ VDC}$
MULTI AXIS ACCELEROMETERS					
	4020 4030 Amplified DC Accelerometers	$\pm 2 \text{ g}, \pm 6 \text{ g}$	0-200 Hz	-40 °C to +85 °C	$\pm 2 \text{ V}$ 5-30 VDC
	EGAS3 Mini Critically Damped 3-Axis Accelerometer	$\pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 250 \text{ g}, \pm 500 \text{ g}, \pm 1000 \text{ g}, \pm 2500 \text{ g}$	0-3.5 kHz	-40 °C to +120 °C	$\pm 100 \text{ mV}$ 2-15 VDC
	EGAXT3 Mini Critically Damped 3-Axis Accelerometer	$\pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g}, \pm 50 \text{ g}, \pm 100 \text{ g}, \pm 250 \text{ g}, \pm 500 \text{ g}, \pm 1000 \text{ g}, \pm 2500 \text{ g}$	0-3 kHz	-40 °C to +120 °C	Ratiometric to Supply voltage 15 VDC

Product Image	Model	Measurement Range	Frequency depending on measuring range	Temp.	Output (Supply Voltage)
MULTI AXIS ACCELEROMETERS					
	EGCS3-D Critically Damped 3-Axis Accelerometer	$\pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g}, \pm 50 \text{ g},$ $\pm 100 \text{ g}, \pm 250 \text{ g}, \pm 500 \text{ g},$ $\pm 1000 \text{ g}, \pm 2500 \text{ g}$	0-4 kHz	-40 °C to +120 °C	$\pm 200 \text{ mV}$ 15 VDC
	AAA545 Servo Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 20 \text{ g},$ $\pm 50 \text{ g}, \pm 100 \text{ g}$	0-1.3 kHz	-40 °C to +105 °C	16-32 mV for 2 g 24-36 mV for all other areas $5 \pm 0.01 \text{ VDC}$
	JMA 200 300 MEMS Series Servo Accelerometer	$\pm 0.5 \text{ g}, \pm 1 \text{ g}, \pm 1.5 \text{ g}$	100 Hz	-40 °C to +85 °C	$\pm 0.5 / 0-5 \text{ V} / 4-20 \text{ mA}$ $\pm 12 - \pm 18 \text{ VDC} / 12-30 \text{ VDC}$
	ASC 5411LN / ASC 5415LN Capacitive Accelerometers	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g},$ $\pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g},$ $\pm 400 \text{ g}$	0-1 kHz	-40 °C to +100 °C	$\pm 4 \text{ V}$ 18-30 VDC
	ASC 5421MF / ASC 5425MF Capacitive Accelerometers	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 30 \text{ g},$ $\pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}$	0-1.8 kHz	-40 °C to +125 °C	$\pm 2.7 \text{ V}$ 5-40 VDC
	ASC 5511LN / ASC 5515LN Capacitive Accelerometers	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g},$ $\pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g},$ $\pm 400 \text{ g}$	0-1 kHz	-40 °C to +100 °C	$\pm 4 \text{ V}$ 18-30 VDC
	ASC 5521MF / ASC 5525MF Capacitive Accelerometers	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 30 \text{ g},$ $\pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}$	0-1.8 kHz	-40 °C to +125 °C	$\pm 2.7 \text{ V}$ 5-40 VDC
	ASC OS-315LN-PG Capacitive Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 25 \text{ g},$ $\pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g},$ $\pm 400 \text{ g}$	0-1 kHz	-15 °C to +70 °C / -20 °C to +100 °C	$\pm 4 \text{ V}$ 6-40 VDC
	ASC OS-325MF-PG Capacitive Accelerometer	$\pm 2 \text{ g}, \pm 5 \text{ g}, \pm 10 \text{ g}, \pm 30 \text{ g},$ $\pm 50 \text{ g}, \pm 100 \text{ g}, \pm 200 \text{ g}$	0-1.8 kHz	-15 °C to +70 °C / -20 °C to +100 °C	$\pm 2.7 \text{ V}$ 5-40 VDC

Reliable, safe and comfortable
Sensors for driving comfort measurement, structural analysis
and fatigue testing of rail vehicles.

SENSORS FOR GEARBOX MONITORING,
MACHINE MONITORING

9 ACCELERATION



SENSORS FOR AUTOMATED
TRAIN CONTROL




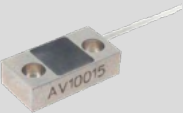




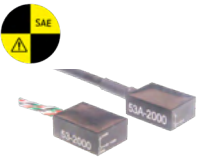
9 ACCELERATION



9 ACCELERATION

SENSORS FOR ACCELERATION
AND DECELERATION CONTROL

Product Image	Model	Measurement Range	Frequency depending on measuring range	Temp.	Output (Supply Voltage)
MULTI AXIS ACCELEROMETERS					
	ASC OS-215LN-PG Capacitive Accelerometer	± 2 g, ± 5 g, ± 10 g, ± 25 g, ± 50 g, ± 100 g, ± 200 g, ± 400 g	0-1 kHz	-15 °C to +70 °C / -20 °C to +100 °C	± 4 V 6-40 VDC
	ASC OS-225MF-PG MEMS Capacitive Accelerometer	± 2 g, ± 5 g, ± 10 g, ± 30 g, ± 50 g, ± 100 g, ± 200 g	0-1.8 kHz	-15 °C to +70 °C / -20 °C to +100 °C	$\pm 2,7$ V 5-40 VDC
	ASC CS-1511LN Capacitive Accelerometer	± 2 g, ± 5 g, ± 10 g, ± 50 g,	0-650 Hz	-20 °C to +70 °C	4-20 mA 8-30 VDC
	ASC CS-1611LN Capacitive Accelerometer	± 2 g, ± 5 g, ± 10 g, ± 50 g,	0-650 Hz	-20 °C to +70 °C	4-20 mA 8-30 VDC
AUTOMOTIVE TESTING ACCELEROMETERS					
	ASC 61C1 Piezoresistive Accelerometer	± 500 g, ± 1000 g, ± 2000 g	0-2.5 kHz	-20 °C to +80 °C	Ratiometric to Supply voltage 3-10 VDC
	ASC 62C1 Piezoresistive Accelerometer	± 500 g, ± 1000 g, ± 2000 g	0-2.5 kHz	-20 °C to +80 °C	Ratiometric to Supply voltage 3-10 VDC
	ASC 66C1 Piezoresistive Accelerometer	± 500 g, ± 1000 g, ± 2000 g	0-2.5 kHz	-20 °C to +80 °C	Ratiometric to Supply voltage 3-10 VDC
	ASC 66C2 Piezoresistive Accelerometer	± 6000 g	0-4 kHz	-20 °C to +80 °C	Ratiometric to Supply voltage 3-10 VDC

Product Image	Model	Measurement Range	Frequency depending on measuring range	Temp.	Output (Supply Voltage)
AUTOMOTIVE TESTING ACCELEROMETERS					
	ASC 74C1 Piezoresistive Accelerometer	±500 g, ±1000 g, ±2000 g	0-2.5 kHz	-20 °C to +80°C	Ratiometric to Supply voltage 3-10 VDC
	ASC 75C1 Piezoresistive Accelerometer	±500 g, ±1000 g, ±2000 g	0-2.5 kHz	-20 °C to +80°C	Ratiometric to Supply voltage 3-10 VDC
	ASC 76C1 Piezoresistive Accelerometer	±500 g, ±1000 g, ±2000 g	0-2.5 kHz	-20 °C to +80°C	Ratiometric to Supply voltage 3-10 VDC
	3700 Shock Testing Accelerometer	±50 g, ±100 g, ±200 g, ±500 g, ±2000 g, ±6000 g	0-5 kHz	-55 °C to +125°C	Ratiometric to Supply voltage 2-10 VDC
	40A Accelerometer	±25 g, ±100 g, ±250 g, ±500 g, ±1000 g, ±2000 g	0-2.5 kHz	-20 °C to +80°C	Ratiometric to Supply voltage 2-10 VDC
	40B Accelerometer	±25 g, ±100 g, ±250 g, ±500 g, ±1000 g, ±2000 g	0-2.5 kHz	-20 °C to +80°C	Ratiometric to Supply voltage 2-10 VDC
	4201 Motorsports DC Accelerometer	±6 g, ±10 g, ±20 g, ±30 g, ±50 g, ±2000 g	100 ± 15 Hz	-40 °C bis +125 °C	0.5-4.5 VDC 8-16 VDC
	52F Accelerometer	±50 g, ±200 g, ±500 g, ±2000 g	0-8 kHz	-40 °C to +90 °C	Ratiometric to Supply voltage 2-10 VDC
	53 53A Accelerometer	±50 g, ±200 g, ±500 g, ±2000 g	0-4.5 kHz	-20 °C to +85 °C	Ratiometric to Supply voltage 2-10 VDC

On collision course
Sensors increase vehicle safety and detect
weak spots in the vehicle.

SENSORS FOR
CRASH DETECTION



ANGULAR-RATE



ACCELERATION

SENSORS FOR CRASH TEST DUMMIES

Product Image	Model	Measurement Range	Frequency depending on measuring range	Temp.	Output (Supply Voltage)
AUTOMOTIVE TESTING ACCELEROMETERS					
	58 Accelerometer	±50 g, ±100 g, ±200 g, ±500 g, ±2000 g	0-7 kHz	-20 °C to +85 °C	Ratiometric to Supply voltage 2-10 VDC
	64B Accelerometer	±50 g, ±100 g, ±200 g, ±500 g, ±2000 g, ±6000 g	0-7 kHz	-40 °C to +121 °C	Ratiometric to Supply voltage 2-10 VDC
	64C Accelerometer	±500 g, ±2000 g, ±6000 g	0-7 kHz	-40 °C to +121 °C	Ratiometric to Supply voltage 2-10 VDC
	64X Accelerometer	±200 g, ±500 g, ±2000 g	0-7 kHz	-40 °C to +121 °C	Ratiometric to Supply voltage 2-10 VDC
	68C WorldSID Triaxial Accelerometer	±100 g, ±500 g, ±2000 g	0-4 kHz	-40 °C to +90 °C	Ratiometric to Supply voltage 2-10 VDC
	EGCS-D5 Shock Testing Accelerometer	±50 g, ±100 g, ±250 g, ±500 g, ±1000 g, ±2500 g, ±5000 g, ±10000 g	0-10 kHz	-40 °C to +100 °C	Ratiometric to Supply voltage 15 VDC
	EGCS-S425 Shock Testing Accelerometer	±100 g, ±250 g, ±500 g, ±1000 g, ±2000 g	0-10 kHz	-20 °C to +80 °C	±150 mV nominal (Min ±100, Max ± 225) 10 VDC



OUR CALIBRATION SERVICE

A maximum of accuracy for your measuring instruments



Accelerometers also need proper care: To ensure that your sensors always provide reliable measurement results, they should be calibrated regularly - preferably once a year. In our in-house calibration laboratory, our experts adjust deviations and document the results in a calibration certificate. In this way, your instruments remain functional for a long time and work reliably. We support you not only with the calibration of standard sensors and test instruments, but also with special custom solutions. We will be happy to advise you and provide you with a custom quotation.

Information + Order form: <https://www.althensensors.com/services/repairs>

Contact our experts: Phone **+49 6195 7 00 60** | Email: info@althen.de

Product Image	Model	Measurement Range	Frequency depending on measuring range	Temp.	Output (Supply Voltage)
IEPE ACCELEROMETERS					
	ASC P101A15 / ASC P101A25 Piezoresistive Accelerometers	±50 g, ±100 g, ±500 g, ±1000 g,	0.3 Hz - 10 kHz	-55 °C to +125°C	±5 V 18-30 VDC
	ASC P203A11 / ASC P203A12 Miniature 3-Axis Piezoelectric Accelerometers	±50 g, ±100 g, ±500 g, ±2000 g,	1 Hz-9 kHz	-55°C to +125°C	±5 V 18-30 VDC
	ASC P311A15 / ASC P311A25 Piezoelectric Accelerometers	±32 g, ±80 g, ±160 g	0.8 Hz - 15 kHz	-55°C to +140 °C	±5 V 18-30 VDC
	ASC P401A15 High-Temperature Piezoelectric Accelerometer	±50 g, ±100 g, ±500 g,	0.5 Hz - 15 kHz	-10 °C to +100°C	±5 V 18-30 VDC
	7131A Multi Axis Accelerometers	±50 g, ±100 g, ±200 g, ±500 g, ±2000 g	0.5 Hz - 11 kHz	-55 °C to +125°C	±5 V 18-30 VDC
	7132A Multi Axis Accelerometer	±10 g, ±50 g, ±100 g, ±500 g, ±2000 g	0.4 Hz - 12 kHz	-55 °C to +125°C	±5 V 18-30 VDC
	7134A Multi Axis Accelerometer	±50 g, ±100 g, ±200 g, ±500 g	0.5 Hz - 6.5 kHz	-55 °C to +125°C	±5 V 18-30 VDC



HAVEN'T FOUND THE RIGHT PRODUCT YET?



From more than 40 years of experience we know: Every application has its own individual requirements. We provide independent advice and do not limit you to one manufacturer. On request, we tailor the accelerometers exactly to your specific needs or take over complex measuring tasks for you. On our website, you will find many more accelerometers for a wide range of applications. We will be happy to help you choose!

Our product portfolio: <https://www.althensensors.com/sensors/acceleration-sensors>

Contact our experts: Phone **+49 6195 7 00 60** | Email: info@althen.de

SENSORS FOR AIRCRAFT STABILITY
CONTROL AND FLIGHT TESTING

g ACCELERATION



g ACCELERATION

SENSORS FOR INERTIAL
NAVIGATION SYSTEM

Safely on track

Sensors for determining the spatial movement as well as the respective geographical position of the helicopter.

MEASURE AND MONITOR STEADY AND UNSTEADY ACCELERATION

The technologies of an accelerometer are as varied as the measuring tasks: We offer accelerometers that measure piezo-resistively, capacitively and piezoelectrically as well as closed loop servo balanced systems. The sensors are based on MEMS, strain gauge and quartz technology. In order to pick the right accelerometer, you should first determine the conditions and parameter under which the sensor will be deployed. Among other things, the following must be taken into account.

- Required measuring range
- Number of axes to be measured
- Amplitude of the vibrations to be monitored
- Expected frequency range
- Temperature range of the application
- Size and shape of the object to be monitored
- The available space for the sensor
- The mounting option (screw or glue)
- Possible complications/disturbances at the place of use (noise, electromagnetic fields, corrosive environment, etc.)
- Required cable length and outputs (open ends or connectors)

Our acceleration sensors are available with integrated or external electronics. We can also integrate our sensors into your application for you. Althen is your competent partner for accelerometers for any of the following fields:

- Railway applications
- Transport measurements
- Bridge and tunnel construction
- Structural monitoring
- Environmental monitoring
- Aviation testing
- Explosion testing
- Biomechanical studies
- SAE and racing crash tests

We offer a special range of Euro-NCAP certified, miniature accelerometers for the automotive industry. In addition to NCAP certification, part of the portfolio is also certified for the use in crash tests according to SAE J211/J2570, ISO 6487 and World SID. Our sensors offer single- and multi-axis measurements. You can choose from versions with integrated measurement amplifiers or full open Wheatstone bridges. The sensors can be mounted by glue joints or with screws.

In addition to sensors with directly mounted, shielded, low-noise cables, we also offer models with plug connectors. These are particularly suited for mechanically critical positions where the cables are under great stress (such as on test dummies) and frequently need to be replaced. Almost all sensors with integrated cable can be ordered with different cable lengths. ASC also offers a selection of different cable types and connection plugs. The housings are available in stainless steel, aluminium, or fully welded titanium versions.

Simply get in touch and let us know your requirements!







THE RIGHT SOLUTION FOR YOUR REQUIREMENTS

Due to our decades of experience, we at Althen can supply our customers with developments ranging from standard and customer-specific sensors to complete measuring systems.

All physical parameters are represented in our product range, using different technologies so that you always get the best solution for your measurement requirements. Thanks to our many years of experience, our technical know-how, our strong team of engineers with different professional backgrounds and our broad product range, we can offer the most efficient solutions for almost all applications in all branches of industry.

Our team will be happy to advise you. You can reach us by phone at **+31 (0) 70392 44 21** or by e-mail to **sales@althen.nl**

OUR PRODUCT SCOPE

bar	Pressure	mm	Displacement	g	Acceleration		Amplifier
N	Force	α	Rotation	m/s²	Vibration		Data Logger
Nm	Torque		Joystick	%s	Angular Rate		Automation
ε	Strain		Inclination	°C	Temperature		Measurement Solutions



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Further information can be found at www.althensensors.com