



ASC

SENSORS

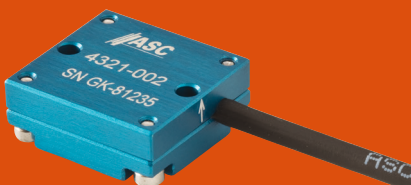


ASC SENSORS –
RAILWAY APPLICATIONS

Commissioning
Applications.
Condition Monitoring
Applications.

ASC

CAPACITIVE ACCELEROMETERS



OFFSHORE ACCELEROMETERS

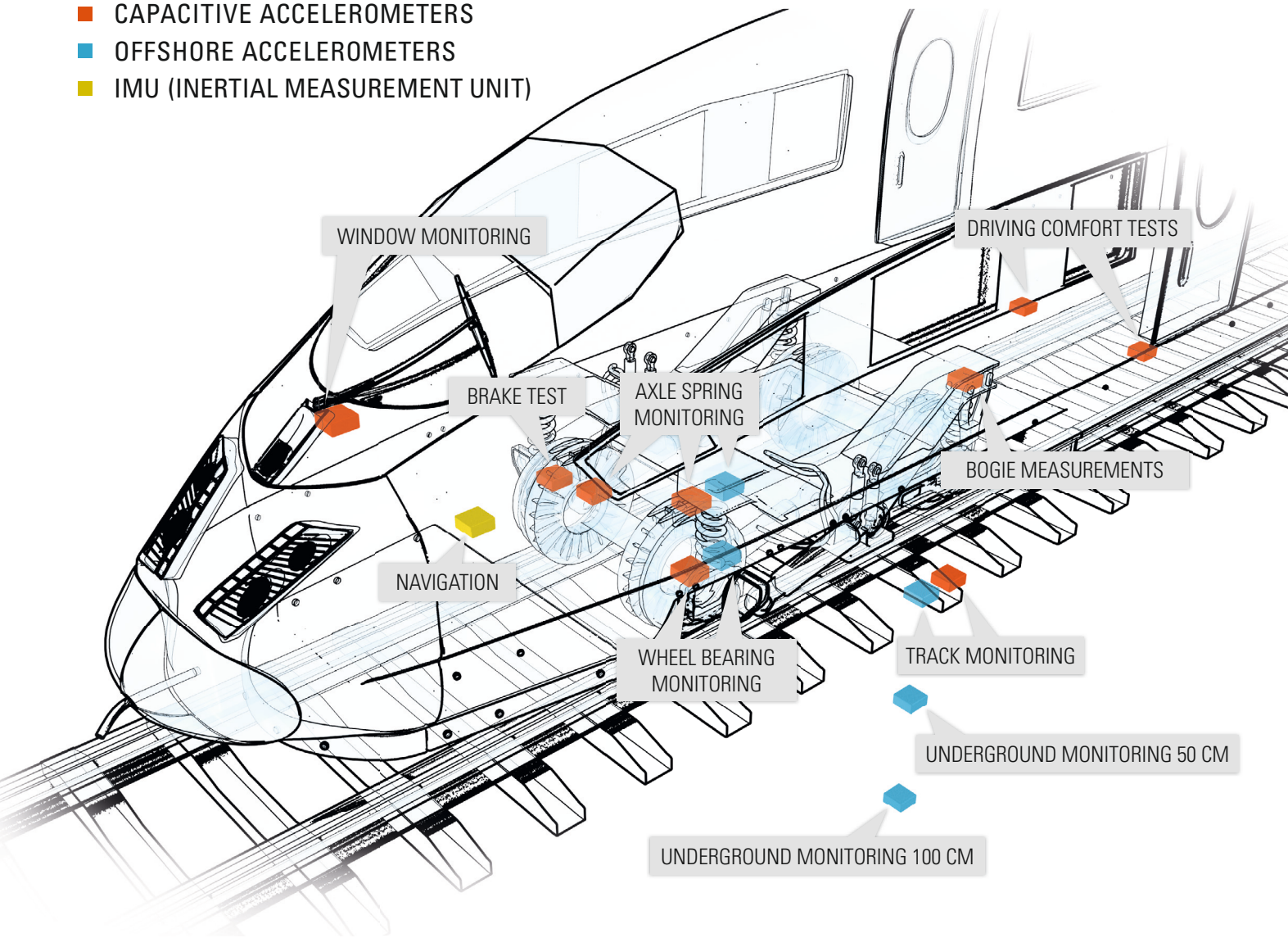


IEPE ACCELEROMETERS



ASC SENSORS RAILWAY APPLICATIONS

- CAPACITIVE ACCELEROMETERS
- OFFSHORE ACCELEROMETERS
- IMU (INERTIAL MEASUREMENT UNIT)



ASC SENSORS – HELP YOU TO GET OPERATIONAL READY

TESTING & COMMISSIONING APPLICATIONS

- Passenger Comfort & Ride Quality
- Brake & Crash Testing
- Modal Analysis
- Commissioning Tests in Laboratories







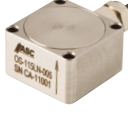
CONDITION MONITORING APPLICATIONS

- Bogie Monitoring
- Wheelset Monitoring
- Axle Box Bearing Monitoring
- Gearbox Monitoring

MISCELLANEOUS APPLICATIONS

- Track Condition Monitoring
- Ground-borne Vibration Monitoring
- Soil Quality Determination

CAPACITIVE TRIAxIAL

							
TYPE ALUMINIUM HOUSING	ASC 5411 LN	ASC 5421	ASC 5421-MF	ASC 5511 LN	ASC 5521	ASC 5521-MF	
TYPE STAINLESS STEEL HOUSING	ASC 5415 LN	ASC 5425	ASC 5425-MF	ASC 5515 LN	ASC 5525	ASC 5525-MF	ASC OS 315 LN*
LOW NOISE / LN	X			X			X
MEDIUM FREQUENCY / MF			X			X	
AXES	TRIAxIAL						
R: RANGE S: SENSITIVITY F: FREQUENCY (±5% TYP.)		R 1 g S 2000 mV/g F 70 Hz			R 1 g S 2000 mV/g F 70 Hz		
	R 2 g S 2000 mV/g F 100 Hz	R 2 g S 1000 mV/g F 100 Hz	R 2 g S 1350 mV/g F 700 Hz	R 2 g S 2000 mV/g F 100 Hz	R 2 g S 1000 mV/g F 100 Hz	R 2 g S 1350 mV/g F 700 Hz	R 2 g S 2000 mV/g F 100 Hz
	R 5 g S 800 mV/g F 100 Hz	R 5 g S 400 mV/g F 100 Hz	R 5 g S 540 mV/g F 700 Hz	R 5 g S 800 mV/g F 100 Hz	R 5 g S 400 mV/g F 100 Hz	R 5 g S 540 mV/g F 700 Hz	R 5 g S 800 mV/g F 100 Hz
	R 10 g S 400 mV/g F 300 Hz	R 10 g S 200 mV/g F 800 Hz	R 10 g S 270 mV/g F 1400 Hz	R 10 g S 400 mV/g F 300 Hz	R 10 g S 200 mV/g F 800 Hz	R 10 g S 270 mV/g F 1400 Hz	R 10 g S 400 mV/g F 300 Hz
	R 25 g S 160 mV/g F 500 Hz	R 30 g S 66 mV/g F 1000 Hz	R 30 g S 90 mV/g F 1600 Hz	R 25 g S 160 mV/g F 500 Hz	R 30 g S 66 mV/g F 1000 Hz	R 30 g S 90 mV/g F 1600 Hz	R 25 g S 160 mV/g F 500 Hz
	R 50 g S 80 mV/g F 650 Hz	R 50 g S 40 mV/g F 1000 Hz	R 50 g S 54 mV/g F 1800 Hz	R 50 g S 80 mV/g F 650 Hz	R 50 g S 40 mV/g F 1000 Hz	R 50 g S 54 mV/g F 1800 Hz	R 50 g S 80 mV/g F 650 Hz
	R 100 g S 40 mV/g F 650 Hz	R 100 g S 20 mV/g F 1000 Hz	R 100 g S 27 mV/g F 1800 Hz	R 100 g S 40 mV/g F 650 Hz	R 100 g S 20 mV/g F 1000 Hz	R 100 g S 27 mV/g F 1800 Hz	R 100 g S 40 mV/g F 650 Hz
	R 200 g S 20 mV/g F 1000 Hz	R 200 g S 10 mV/g F 1000 Hz	R 200 g S 13.5 mV/g F 1800 Hz	R 200 g S 20 mV/g F 1000 Hz	R 200 g S 10 mV/g F 1000 Hz	R 200 g S 13.5 mV/g F 1800 Hz	R 200 g S 20 mV/g F 1000 Hz
	R 400 g S 10 mV/g F 1000 Hz			R 400 g S 10 mV/g F 1000 Hz			R 400 g S 10 mV/g F 1000 Hz
OPERATING TEMPERATURE	-40°C to 100°C	-40°C to 100°C	-40°C to 125°C	-40°C to 100°C	-40°C to 100°C	-40°C to 125°C	-40°C to 100°C
SUPPLY VOLTAGE	8 to 30 VDC		7 to 40 VDC	8 to 30 VDC		7 to 40 VDC	8 to 30 VDC

*also available as BIAxIAL ASC OS 215

CAPACITIVE UNIAXIAL



TYPE ALUMINIUM HOUSING	ASC 4311 LN	ASC 4321	ASC 4321-MF	ASC 4411 LN	ASC 4421	ASC 4421-MF	
TYPE STAINLESS STEEL HOUSING	ASC 4315 LN	ASC 4325	ASC 4325-MF	ASC 4415 LN	ASC 4425	ASC 4425-MF	ASC OS 115 LN*
LOW NOISE / LN	X			X			X
MEDIUM FREQUENCY / MF			X			X	
AXES	UNIAXIAL						
R: RANGE S: SENSITIVITY F: FREQUENCY (± 5% TYP.)		R 1 g S 2000 mV/g F 70 Hz			R 1 g S 2000 mV/g F 70 Hz		
	R 2 g S 2000 mV/g F 100 Hz	R 2 g S 1000 mV/g F 100 Hz	R 2 g S 1350 mV/g F 700 Hz	R 2 g S 2000 mV/g F 100 Hz	R 2 g S 1000 mV/g F 100 Hz	R 2 g S 1350 mV/g F 700 Hz	R 2 g S 2000 mV/g F 100 Hz
	R 5 g S 800 mV/g F 100 Hz	R 5 g S 400 mV/g F 100 Hz	R 5 g S 540 mV/g F 700 Hz	R 5 g S 800 mV/g F 100 Hz	R 5 g S 400 mV/g F 100 Hz	R 5 g S 540 mV/g F 700 Hz	R 5 g S 800 mV/g F 100 Hz
	R 10 g S 400 mV/g F 300 Hz	R 10 g S 200 mV/g F 800 Hz	R 10 g S 270 mV/g F 1400 Hz	R 10 g S 400 mV/g F 300 Hz	R 10 g S 200 mV/g F 800 Hz	R 10 g S 270 mV/g F 1400 Hz	R 10 g S 400 mV/g F 300 Hz
	R 25 g S 160 mV/g F 500 Hz	R 30 g S 66 mV/g F 1000 Hz	R 30 g S 90 mV/g F 1600 Hz	R 25 g S 160 mV/g F 500 Hz	R 30 g S 66 mV/g F 1000 Hz	R 30 g S 90 mV/g F 1600 Hz	R 25 g S 160 mV/g F 500 Hz
	R 50 g S 80 mV/g F 650 Hz	R 50 g S 40 mV/g F 1000 Hz	R 50 g S 54 mV/g F 1800 Hz	R 50 g S 80 mV/g F 650 Hz	R 50 g S 40 mV/g F 1000 Hz	R 50 g S 54 mV/g F 1800 Hz	R 50 g S 80 mV/g F 650 Hz
	R 100 g S 40 mV/g F 650 Hz	R 100 g S 20 mV/g F 1000 Hz	R 100 g S 27 mV/g F 1800 Hz	R 100 g S 40 mV/g F 650 Hz	R 100 g S 20 mV/g F 1000 Hz	R 100 g S 27 mV/g F 1800 Hz	R 100 g S 40 mV/g F 650 Hz
	R 200 g S 20 mV/g F 1000 Hz	R 200 g S 10 mV/g F 1000 Hz	R 200 g S 13.5 mV/g F 1800 Hz	R 200 g S 20 mV/g F 1000 Hz	R 200 g S 10 mV/g F 1000 Hz	R 200 g S 13.5 mV/g F 1800 Hz	R 200 g S 20 mV/g F 1000 Hz
	R 400 g S 10 mV/g F 1000 Hz			400 g S 10 mV/g F 1000 Hz			
OPERATING TEMPERATURE	-40°C to 100°C	-40°C to 100°C	-40°C to 125°C	-40°C to 100°C	-40°C to 100°C	-40°C to 125°C	-40°C to 100°C
SUPPLY VOLTAGE	8 to 30 VDC		7 to 40 VDC	8 to 30 VDC		7 to 40 VDC	8 to 30 VDC

IEPE TRIAXIAL



TYPE TITANIUM
HOUSING

ASC P203A12

TYPE ANODISED
ALUMINIUM HOUSING

ASC P203A11

CASE ISOLATED

X

AXES

TRIAXIAL

R: RANGE
S: SENSITIVITY
F: FREQUENCY
(±10% TYP.)

R 50 g
S 100 mV/g
F 2.5 Hz to 8 kHz

R 100 g
S 50 mV/g
F 1.5 Hz to 8 kHz

R 500 g
S 10 mV/g
F 1 Hz to 8 kHz

R 2000 g
S 2.5 mV/g
F 1 Hz to 9 kHz

OPERATING
TEMPERATURE

-55°C to 125°C

EXCITATION
SUPPLY CURRENT

18 to 30 VDC
2 to 10 mA

IEPE UNIAXIAL



TYPE STAINLESS
STEEL HOUSING

ASC P311A15
ASC P311A25

ASC P101A15
ASC P101A25

ASC P401A15

CASE ISOLATED

X

X

AXES

UNIAXIAL

R: RANGE
S: SENSITIVITY
F: FREQUENCY
(±1 dB TYP.)

R 32 g
S 250 mV/g
F 0.5 Hz to 6 kHz

R 50 g
S 100 mV/g
F 0.3 Hz to 10 kHz

R 50 g
S 100 mV/g
F 0.5 Hz to 10 kHz

R 80 g
S 100 mV/g
F 0.5 Hz to 6 kHz

R 100 g
S 50 mV/g
F 0.3 Hz to 10 kHz

R 100 g
S 50 mV/g
F 0.5 Hz to 10 kHz

R 160 g
S 50 mV/g
F 0.5 Hz to 6 kHz

R 500 g
S 10 mV/g
F 0.3 Hz to 10 kHz

R 500 g
S 10 mV/g
F 0.5 Hz to 15 kHz

R 1000 g
S 5 mV/g
F 0.3 Hz to 10 kHz

OPERATING
TEMPERATURE

-55°C to 140°C

-55°C to 125°C

-55°C to 150°C

EXCITATION
SUPPLY CURRENT

20 to 26 VDC
0.5 to 8 mA

18 to 30 VDC
2 to 10 mA

18 to 30 VDC
2 to 20 mA

WE FACE UP TO YOUR CHALLENGES

Our customers all over the world are advancing the development of technology with great energy and intensive research. With our highly specialised expertise, uncompromising product quality and outstanding service we help them to be ideally equipped for challenges in their innovative work. We have sales partners all over the world, so we are ready to help our customers wherever they are.

WHY NOT TEST US? WE LOVE CHALLENGES!

RELIABLE AND PERSONAL: OUR CUSTOMER SERVICE

- Fast order processing
- Short delivery periods
- Compliance with delivery dates
- Correct deliveries
- Personal communication

FLEXIBLE AND PRECISE: OUR PRODUCTION "MADE IN GERMANY"

- Customised solutions
- Implementation of individual customer requirements
- Production of large and small quantities
- Highest product quality
- Technical consulting

FAST AND REASONABLE: OUR REPAIR, MAINTENANCE AND CALIBRATION SERVICE

- Repair and recalibration of accelerometers, also of other brands
- Connection of sensors to existing cables
- Replacement of cables and connectors
- Detailed failure analysis
- High-quality spare parts



The Deutsche Akkreditierungsstelle GmbH (DAkkS) granted the calibration laboratory of ASC GmbH the authority to execute calibrations according to DIN EN ISO/IEC 17025:2005 for the following mechanical measurand: Acceleration. Certificate registration No.: D-K-18110-01-00



ASC is certified under the quality management standard 9001:2008. The preservation of this high standard was officially confirmed in March 2013.



MEMBER



ASC GmbH · Advanced Sensors & Calibration

Schäfflerstraße 15 · 85276 Pfaffenhofen · Germany · Tel. +49 (0) 84 41 / 78 65 47-0
office@asc-sensors.de · www.asc-sensors.de · Revision: 06/2016

OUR CUSTOMERS WORLDWIDE

Audi · Alstom · Altran Concept Tech GmbH · AVL List · Balfour Beatty · Beijing Environment Institute · BMW Continental Safety Engineering · Daimler · Dewetron · DB · Faiveley · Fiat · Great Wall Auto · Honda · Hyundai Motors IABG · IMC Test & Measurement · Italcertifer · Ipetronik · Iveco · John Deere · Johnson Controls · Magna Steyr · MAN MTS · Siemens · Strainstall · Trenitalia · TÜV Süd Rail · Volkswagen · Volvo · Xiangfan Auto Inspection Center