



ASC

S E N S O R S

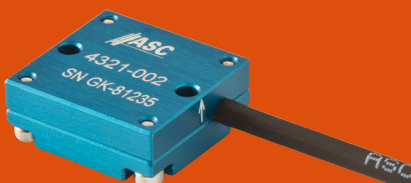
ASC SENSORS –

Automotive · Railway
Wind Energy · Monitoring



ASC

CAPACITIVE ACCELEROMETERS



PIEZORESISTIVE ACCELEROMETERS



IEPE ACCELEROMETERS



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

PIEZORESISTIVE TRIAXIAL

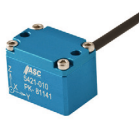
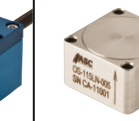
			
TYPE ALUMINIUM HOUSING	ASC 74C1	ASC 75C1	ASC 76C1
AXES	TRIAXIAL		
R: RANGE S: SENSITIVITY* F: FREQUENCY (±5% TYP.)	R 500 g S 0.4 mV/g F 2500 Hz		
	R 1000 g S 0.15 mV/g F 2500 Hz		
	R 2000 g S 0.13 mV/g F 2500 Hz		
* CALIBRATED AT 10 VDC			
OPERATING TEMPERATURE	-20°C to 80°C		
SUPPLY VOLTAGE	3 to 10 VDC		

PIEZORESISTIVE UNIAXIAL

			
TYPE ALUMINIUM HOUSING	ASC 61C1	ASC 62C1	ASC 66C1
AXES	UNIAXIAL		
R: RANGE S: SENSITIVITY* F: FREQUENCY (±5% TYP.)	R 500 g S 0.4 mV/g F 2500 Hz		
	R 1000 g S 0.15 mV/g F 2500 Hz		
	R 2000 g S 0.13 mV/g F 2500 Hz		
* CALIBRATED AT 10 VDC			
OPERATING TEMPERATURE	-20°C to 80°C		
SUPPLY VOLTAGE	3 to 10 VDC		

ASC SENSORS –
PRODUCTS MADE IN GERMANY

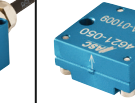
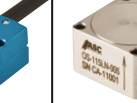
CAPACITIVE (VOLTAGE OUTPUT) TRIAXIAL

								
TYPE ALUMINIUM HOUSING	ASC 5411 LN	ASC 5421	ASC 5421-MF	ASC 5511 LN	ASC 5521	ASC 5521-MF	ASC 5721	
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 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 1000 mV/g F 100 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 400 mV/g F 100 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 200 mV/g F 800 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 30 g S 66 mV/g F 1000 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 40 mV/g F 1000 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 20 mV/g F 1000 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 10 mV/g F 1000 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	-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 (VOLTAGE OUTPUT) UNIAXIAL

						
TYPE ALUMINIUM HOUSING	ASC 3411 LN	ASC 3421	ASC 3511 LN	ASC 3521	ASC 4221	ASC 4311 LN
TYPE STAINLESS STEEL HOUSING						ASC 4315 LN
LOW NOISE / LN	X		X			X
MEDIUM FREQUENCY / MF						
AXES						
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 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 2000 mV/g F 100 Hz	R 2 g S 1000 mV/g F 100 Hz	R 2 g S 1000 mV/g F 100 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 800 mV/g F 100 Hz	R 5 g S 400 mV/g F 100 Hz	R 5 g S 400 mV/g F 100 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 400 mV/g F 300 Hz	R 10 g S 200 mV/g F 800 Hz	R 10 g S 200 mV/g F 800 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 25 g S 160 mV/g F 500 Hz	R 30 g S 66 mV/g F 1000 Hz	R 30 g S 66 mV/g F 1000 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 80 mV/g F 650 Hz	R 50 g S 40 mV/g F 1000 Hz	R 50 g S 40 mV/g F 1000 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 40 mV/g F 650 Hz	R 100 g S 20 mV/g F 1000 Hz	R 100 g S 20 mV/g F 1000 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 20 mV/g F 1000 Hz	R 200 g S 10 mV/g F 1000 Hz	R 200 g S 10 mV/g F 1000 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 100°C	-40°C to 100°C	-20°C to 80°C	-40°C to 100°C
SUPPLY VOLTAGE	8 to 30 VDC					

								
ASC 4321	ASC 4321-MF	ASC 4411 LN	ASC 4421	ASC 4421-MF	ASC 4511 LN	ASC 4521	ASC 4621	
ASC 4325	ASC 4325-MF	ASC 4415 LN	ASC 4425	ASC 4425-MF	ASC 4515 LN	ASC 4525	ASC 4625	ASC OS 115 LN*
		X			X			X
X				X				
UNIAXIAL								
R 1 g S 2000 mV/g F 70 Hz			R 1 g S 2000 mV/g F 70 Hz			R 1 g S 2000 mV/g F 70 Hz	R 1 g S 2000 mV/g F 70 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 2 g S 1000 mV/g F 100 Hz	R 2 g S 1000 mV/g F 100 Hz	R 2 g S 2000 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 5 g S 400 mV/g F 100 Hz	R 5 g S 400 mV/g F 100 Hz	R 5 g S 800 mV/g F 100 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 10 g S 200 mV/g F 800 Hz	R 10 g S 200 mV/g F 800 Hz	R 10 g S 400 mV/g F 300 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 30 g S 66 mV/g F 1000 Hz	R 30 g S 66 mV/g F 1000 Hz	R 25 g S 160 mV/g F 500 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 50 g S 40 mV/g F 1000 Hz	R 50 g S 40 mV/g F 1000 Hz	R 50 g S 80 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 100 g S 20 mV/g F 1000 Hz	R 100 g S 20 mV/g F 1000 Hz	R 100 g S 40 mV/g F 650 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 200 g S 10 mV/g F 1000 Hz	R 200 g S 10 mV/g F 1000 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
-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	-40°C to 100°C	-40°C to 100°C	-40°C to 100°C
	7 to 40 VDC	8 to 30 VDC		7 to 40 VDC	8 to 30 VDC			

CAPACITIVE (CURRENT OUTPUT)

UNIAXIAL | BIAXIAL | TRIAXIAL

						
TYPE ANODISED ALUMINIUM HOUSING	ASC CS 1721	ASC CS 1711 LN	ASC CS 1521	ASC CS 1511 LN	ASC CS 1621	ASC CS 1611 LN
LOW NOISE / LN		X		X		X
AXES	UNIAXIAL		BIAXIAL		TRIAXIAL	
R: RANGE S: SENSITIVITY F: FREQUENCY (± 5% TYP.)	R 2 g S 4 mA/g F 100 Hz	R 2 g S 4 mA/g F 100 Hz	R 2 g S 4 mA/g F 100 Hz	R 2 g S 4 mA/g F 100 Hz	R 2 g S 4 mA/g F 100 Hz	R 2 g S 4 mA/g F 100 Hz
	R 5 g S 1.6 mA/g F 100 Hz	R 5 g S 1.6 mA/g F 100 Hz	R 5 g S 1.6 mA/g F 100 Hz	R 5 g S 1.6 mA/g F 100 Hz	R 5 g S 1.6 mA/g F 100 Hz	R 5 g S 1.6 mA/g F 100 Hz
	R 10 g S 0.8 mA/g F 800 Hz	R 10 g S 0.8 mA/g F 300 Hz	R 10 g S 0.8 mA/g F 800 Hz	R 10 g S 0.8 mA/g F 300 Hz	R 10 g S 0.8 mA/g F 800 Hz	R 10 g S 0.8 mA/g F 300 Hz
	R 50 g S 0.16 mA/g F 1000 Hz	R 50 g S 0.16 mA/g F 650 Hz	R 50 g S 0.16 mA/g F 1000 Hz	R 50 g S 0.16 mA/g F 650 Hz	R 50 g S 0.16 mA/g F 1000 Hz	R 50 g S 0.16 mA/g F 650 Hz
OPERATING TEMPERATURE	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
SUPPLY VOLTAGE	8 to 30 VDC					

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.



ASC GmbH · Advanced Sensors & Calibration

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