



Vibro-Meter

Transducer systems for rotorcraft

MEGGITT
smart engineering for
extreme environments

Engine accelerometers

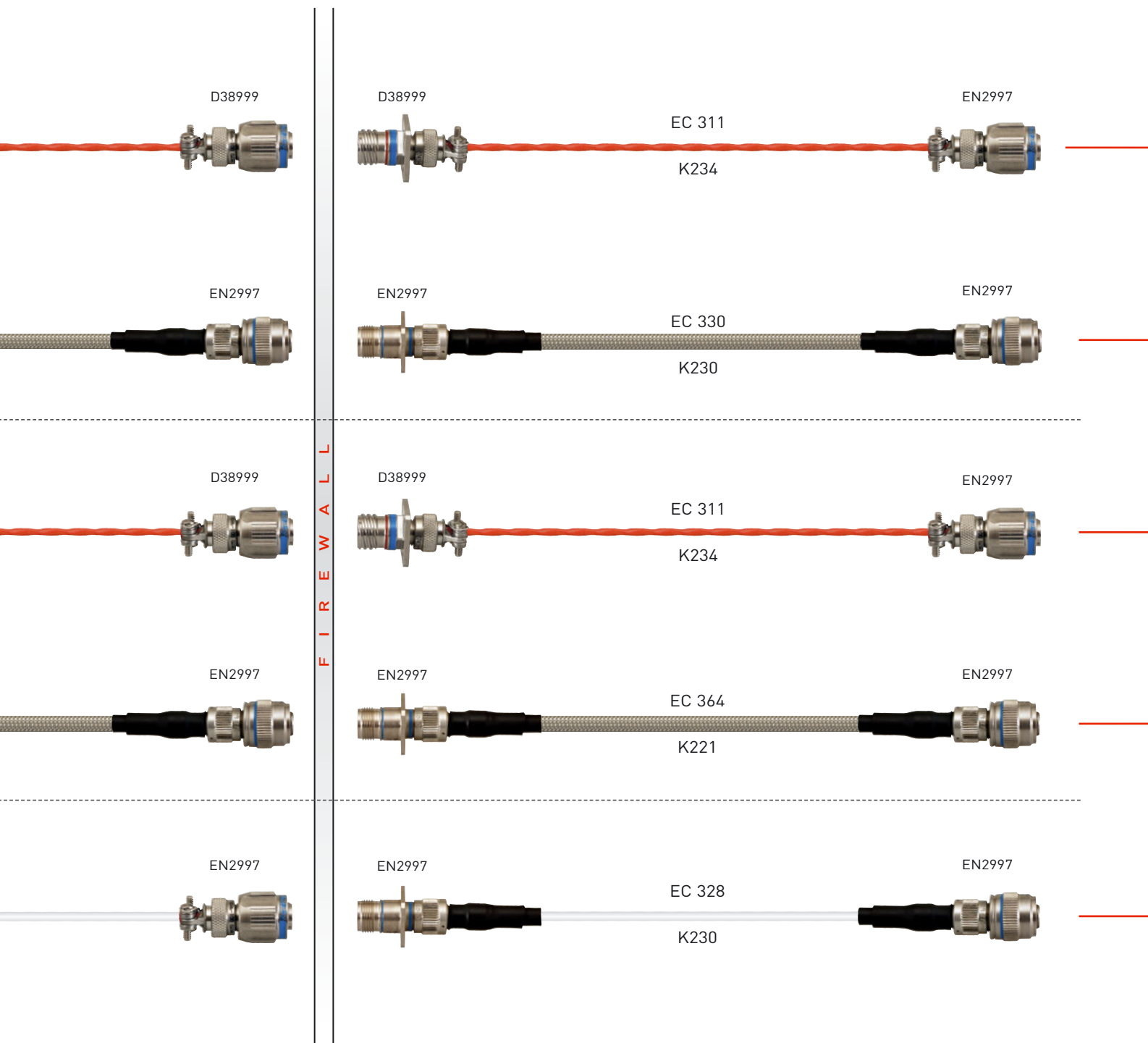
Specifications

CA 107	CA 107 7xx		MI		EC 308	K234
	CA 107 802		MI - Overbraid	EN2997	EC 329	K230
CA 135	CA 135 102		CG505		EC 309	K234
	CA 135 702		EN2997		EC 327	K230
CA 139	CA 139		CG505		EC 340	K221

Airframe accelerometer

Specifications

CE 581/2/3	CE 581/2/3		With built-in electronics		Power supply
	100 mV/g: $\pm 50g$ Overload: 5000g Res. freq: 20 kHz Temp: -55°C to +121°C		Connector type: MS3113, 4-pin		
			CE 581: Uniaxial CE 582: Biaxial CE 583: Triaxial		Voltage: +18 to +24 VDC Current: 2 to 20 mA



Cables		
Type	Temp.	Hard/softline
K 221	200°C	S-MTLN
K 234	200°C	S-MTLN
K 230	200°C	S-MTLN
MI cable with stainless steel over braid	700°C	H-MI
MI cable	700°C	H-MI

Remote Charge Converters

RCC 291



1 channel

- Customisable, to fit the sensor's transfer function and the vibration's frequency and amplitude.
- Integrated BITE (Built-In Test Equipment)
- Temp: -54°C to +120°C

Power supply

I constant: 6 to 20 mA
V stand-by: 15 VDC
(VPU 271)

RCC 237 / RCC 287



2 channels

RCC 237

- 10 pC/g: 500g (channels A & B)

RCC 287

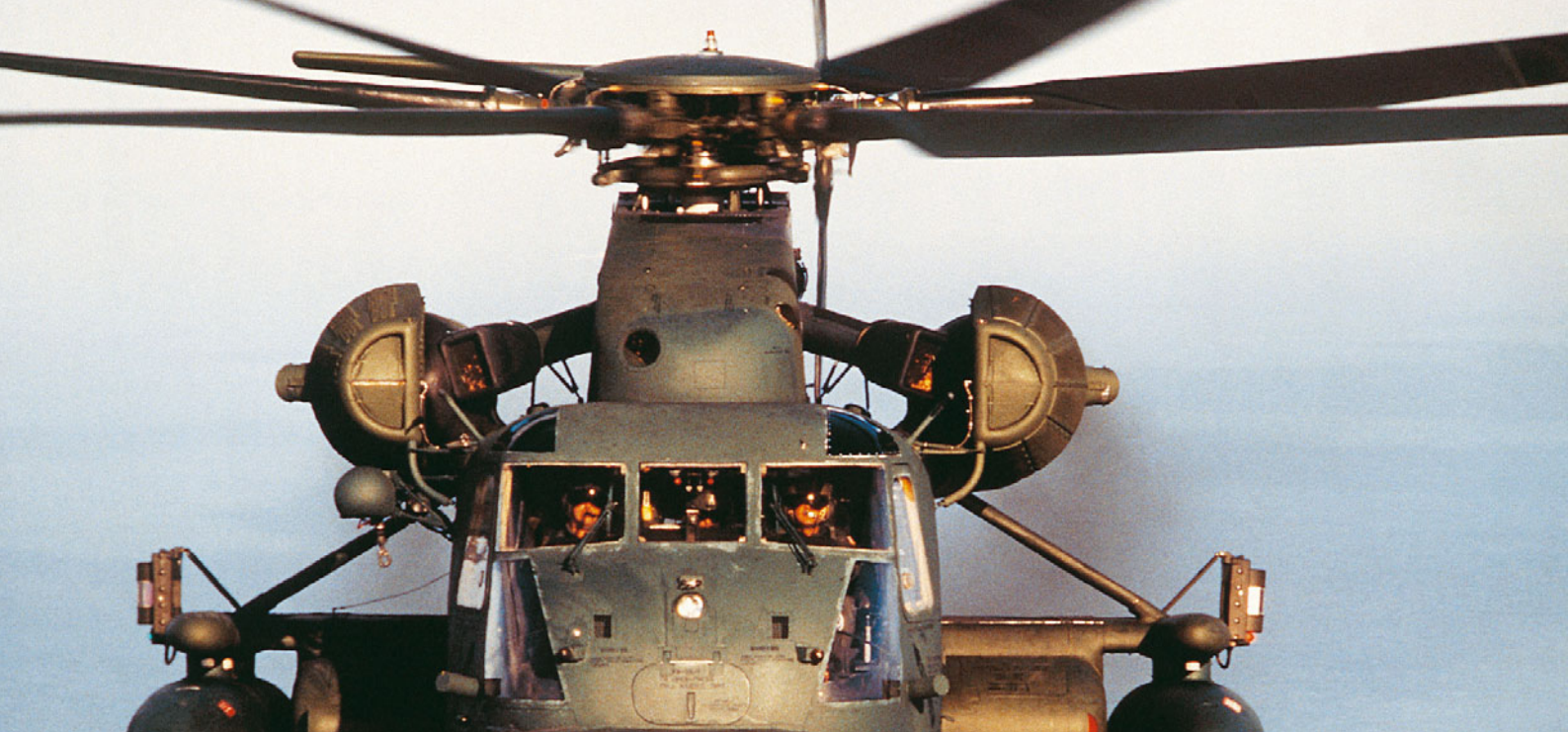
- 5 pC/g: 400g (channel A)
- 20 pC/g: 1000g (channel B)

- Integrated BITE

- Temp: -54°C to +120°C

Power supply

I constant: 6 to 12 mA
V stand-by: 16 VDC
(VPU 271)



Transducers, cables and electronics

Vibro-Meter's engine and vibration monitoring systems have been used on almost all commercial aircraft and engines since 40 years.

We design and manufacture high-end transducers systems for rotorcraft applications, which are qualified for engines and airframes vibration analysis. Our systems include piezoelectric accelerometers, cables, and charge converters.

- Absolute vibration for helicopter engines and airframes.
- High temperature capability from -70°C to +600°C.
- All products shown herein benefit from more than 40 years experience.
- No maintenance required for our vibration measuring systems.

Vibro-Meter supplies complete measuring chains as well as single components. We offer a wide range of standard products suited to the helicopter market's needs. With our commitment to engineering expertise, we also tailor designs to our customer's needs.

References

Vibro-Meter's products are widely used on many helicopter programs, including:

- Boeing CH-47 Chinook
- Eurocopter EC 225 Super Puma
- Eurocopter EC 155 Dauphin
- NHIndustries NH90
- Sikorsky UH-60 Blackhawk
- Sikorsky CH-53
- Sikorsky S-92

Quality approvals

- Quality system:

SAE	AS9100	
BS	EN9100:2003	
BS	EN ISO9001:2000	
- Production organisation:

JAA	JAR	Part 21 Subpart G
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- Repair:

FAA	FAR	Part 145
JAA	JAR	Part 145
CAAC	CCAR	Part 145
EASA	EASA	Part 145



Since its foundation in 1952, Vibro-Meter has established itself as a leader in designing and manufacturing electronic measurement and processing systems, whilst remaining a leading supplier of reliable, high quality instrumentation systems to aerospace customers world-wide, providing sensors, remote charge converters (RCC) and vibration processing units (VPU) for rotorcraft systems for both civil and military applications.

The company's most significant asset is its ability to engineer reliable high quality, customer-orientated solutions. Vibro-Meter became a member of the Meggitt group of companies in 1998.

With our commitment to engineering expertise, comprehensive manufacturing resources, world-wide technical support and full service repair capabilities, help is never far away. Our international network of subsidiaries and distributors is always available.

Vibro-Meter is a Meggitt group company. Headquartered in the UK, Meggitt PLC is an international group of companies operating in North America, Europe and Asia. Known for its specialist extreme environment engineering, Meggitt is a world leader in the aerospace, defence and electronics industries.

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