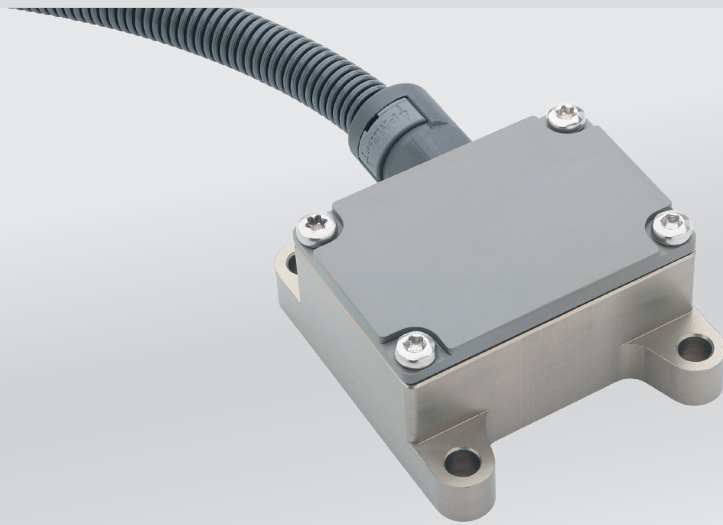


INGESYS

SR A

Acceleration Sensors



INGESYS™ SR is the new family of digital sensors for machine monitoring that integrate advanced diagnostic functions. Communication with the sensors uses Ingeteam's advanced SRX protocol that allows high-speed data capture from multiple sensors with capture time synchronisation.

Within the sensors family, the INGESYS™ SR A accelerometers enable the capture of high frequency raw vibration data for use in INGESYS™ applications, allowing the integration of advanced processing algorithms.

Digital sensors for machine monitoring

Main functionalities

- Technology: MEMS
- Measurement: 3 axis (X,Y,Z), +-50g
- Integrated temperature measurement
- Cable length: up to 1000 m
- Rugged digital communication for difficult environments
- Mechanical features: IP68

Benefits

- ✓ Integrated 3-axis vibration and temperature measurements
- ✓ High level of electromagnetic noise immunity
- ✓ Connection length for large machines
- ✓ Advanced diagnostic functions

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Ingeteam

Technology	MEMS
Communication Protocol	SRX
Absolute maximum values	
Acceleration	10,000g (any axis)
Drop test	1.2m
Storage temperature	-40°C to 90°C
Functional specification	
Measurement	3 axis (X, Y, Z)
Measuring range	+/- 50g
Operating temperature	-40°C to +70°C
Accuracy	5% (over temperature range)
Cross-sensitivity between axes	1%
Linearity	0.1%
Resonant frequency of the device	>20KHz
Bandwidth (5%)	DC at 4.7KHz
Bandwidth (-3 dB)	DC to 11KHz
Noise density	100Hz at 10KHz: 25µg/√Hz
Noise domain 1/f	<0.1Hz
Max. connection length	1000m
Temperature measurement	
Measuring point	Enclosure
Measuring range	-40C to +150C
Accuracy	0.3°C (-20C to +105C)
Mechanical construction	
Protective material	Anodised aluminium
Degree of protection	IP68
Fixing	Screws
Weight	<300gr
Measurement	70 x 60 x 30mm
Cable outlet	Cable gland