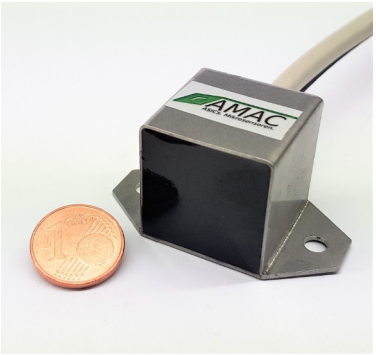
1-Axis Vibration/Shock Sensor

AM-SW1D



Characteristics:

- **1 axis vibration and shock sensor**
- **Programmed 4 FIR-filter per channel**
- **Internal clock**
- **Set threshold value: voltage, temperature, for each input channel**
- **Real-time data transmission from ASIC, SPI master mode**
- **Power-On-Reset (POR)**
- **Configuration from EEPROM**
- **Temperature sensor**
- **Interfaces: SPI / CAN bus**
- **Calibrated offset and integration capacitors**

The AM-SW1D is a vibration and shock sensor system with an integrated mixed signal circuit AM-CVC2D. The system delivers via the serial interface the digital measurement of the calibrated sensors for vibration (8k) and shock (20k). FIR parameters, temperature, and monitoring data such as threshold parameters can be also send via the SPI/ CAN serial interface. The resolution/sensitivity of the sensor is also programmed and set according to specific requirements*.

Sensors 8k/20k parameters

Parameters	Vibration 8K	Shock 20K	Unit
Axes	1	1	
Measurement range:	±180	±720	g
Cut-off frequency (-3dB)	7.5	20	kHz

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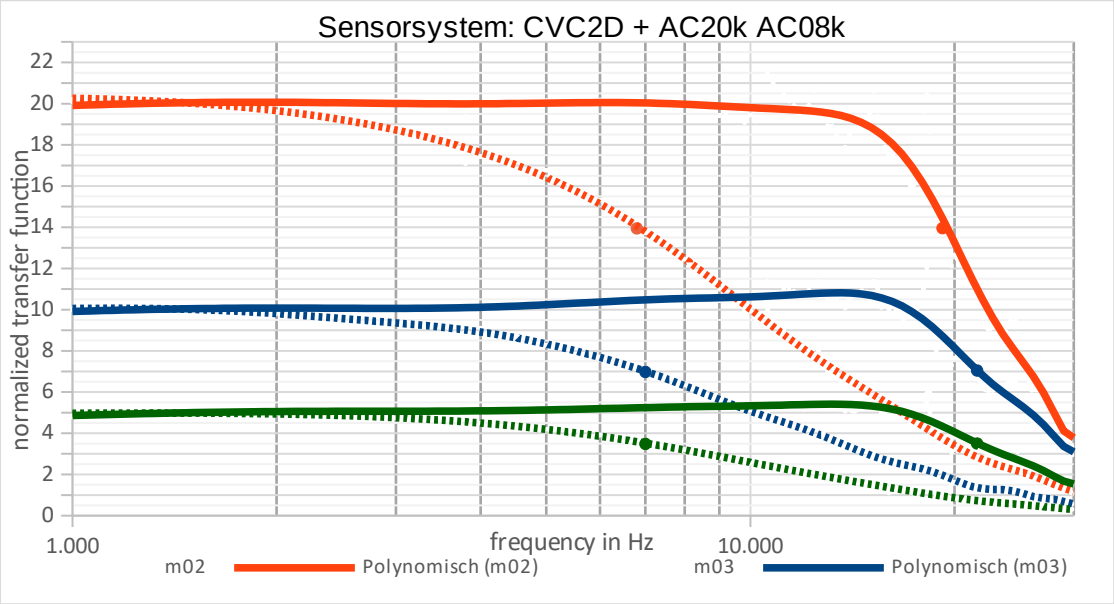

Specifications:

Parameter	Description
Operation voltage:	5 … 24 VDC
Power consumption:	Max. 60 mA @ 5 V [1]
Operating temperature:	-40 … +85° C
Serial Interfaces:	SPI / CAN bus
Applications:	Vibration monitoring Condition monitoring Machine health

Housing:

Parameter	Description
Mounting type	Screw mount
Material	Stainless steel
Dimensions (mm)	L1: 22.8, L2: 46, W: 24, H: 22.8
Cable	12 poles or 10 and 6 poles configuration

Ordering information:

Please send requests by email to info@amac-chemnitz.de or call us at +49 371 33 42 04 – 0.

1Already programmed