

SMART INTELLIGENT SENSORS

DIGITAL ACCELERATION & INCLINATION SENSOR



"3D ACC" MULTIFUCTIONAL INTELLIGENT SENSOR

The digital accelerometer "MOM 3D ACC" is an economical alternative to traditional force-balanced accelerometers. The proprietary noise reduction algorithm integrated in the sensor allows the use for various applications in condition-based maintenance especially at low frequency on structures.

Using the integrated 360° 3-axis inclinometer, tilt monitoring with simultaneous vibration monitoring is now easier than ever before.

The sensor can easily be adapted to customer-specific needs, including online – GSM connectivity data management with live visualization and threshold monitoring for M2M applications.

The MOM 3DACC can be attached to MOM dataloggers or to the MOM RS485i USB interface using a up to 1200 m RS485 cable.

Using our free datalogging software, the sensor data can be recorded as standard CSV format.

☑ follows VDI 3834 low-frequency monitoring









SMART INTELLIGENT SENSOR



77mm

VARIED MOUNTING PLATE

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"3D ACC" SENSOR FEATURES

- 3-axis acceleration sensor 16-bit resolution
- 360° 3-axis inclination sensor with 0.000001° resolution
- Low noise ca. 0.87mg RMS typ. @ 100Hz ODR
- Down to 0.02 mg resolution
- Capable of < 0.1Hz frequency response
- Up to 17.5 bits resolution in high-resolution mode
- 10.000g (typ) shock survival
- Wide supply voltage range: 3.8 V-15.0 V
- +/- 2g to +/- 16g nominal full-scale range
- RS485 interface Binary or ASCII protocol
- Low-profile PCB can be integrated into custom product
- Customer-specific firmware available
- Standard M12 sensor connector with up to 1200 m of cable
- Free&open-source datalogging software available
- IP65 flange aluminium enclosure

☑ follows VDI 3834 low-frequency monitoring

"3D ACC" VARIED MOUNTING PLATE

- magnetic plate
- adhensive plate
- welding plate

"3D ACC" PROSPECTIVE NOISE FILTER ~ 0.87 mg RMS typ. @ 100Hz ODR

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