

ACC 1826 单轴加速度传感器

产品规格书

ACC 1826 Uniaxial Accelerometer

Product Specification

产品规格书-中文.....	1
Product introduction-EN.....	3

从此文件发布日期起，在此发表的是当前或者拟定的信息。由于我们会不断对产品进行改进和增加特征此出版物中的信息如有变动恕不另行通知。

From the date of this document's release, the information published here is current or proposed. As we will continuously improve and add features to our products, the information in this publication is subject to change without further notice.

产品简介

ACC 1826 单轴加速度传感器



ACC 1826 加速度计是压电式加速度传感器，它内部自带了电荷放大器，采用压电陶瓷材料制造的敏感元件使其具有良好的性能，能够长期使用中保持足够的稳定性。

使用同轴电缆给该传感器提供 2-10mA 的恒流电源，同时输出信号也由这个同轴电缆输出，国际上通称为IEPE方式。

功能特点

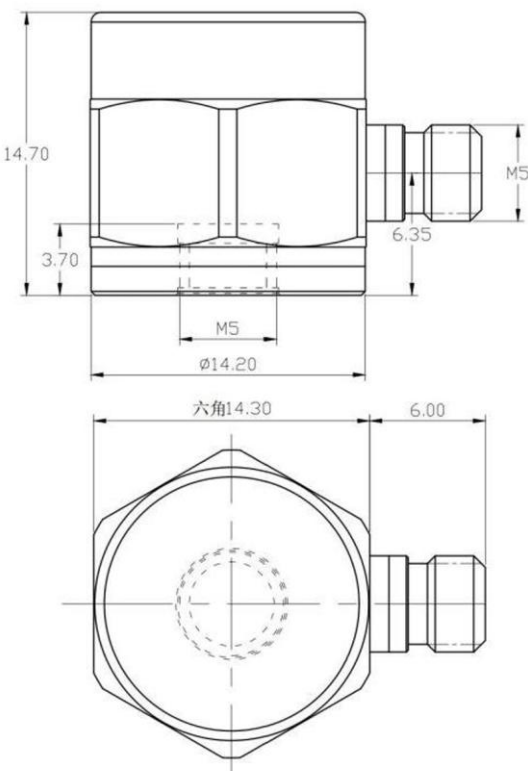
- 剪切结构设计，宽频响范围
- 小尺寸，大灵敏度

规格参数

整体参数	
灵敏度	500mV/g ($\pm 10\%$)
量程	$\pm 10g$
频率范围	2Hz - 10kHz ($\pm 5\%$) 1Hz - 12kHz ($\pm 10\%$)
横向灵敏度	$\leq 5\%$
幅值线性度	$\leq 1\%$
带宽分辨率	0.0002grms
安装谐振频率	$\geq 30kHz$
冲击抵抗	3000g pk
工作电压范围	+20 - +30VDC
工作电流范围	+2 - +20mA (典型4mA)
工作温度范围	-40 - +80°C
偏置电压	8 - 12 V
输出阻抗	$< 100 \Omega$
密封方式	激光焊接
敏感元件	压电陶瓷
外壳材料	钛合金
结构形式	剪切型
重量	8.5g
输出方式	M5侧端输出
安装方式	M5螺纹

外形尺寸

unit(mm)



订购信息

PN号	型号	说明
900015-71	ACC 1826	单轴加速度传感器
960034-01	PM 6183	数据采集卡
730008-030	102C030	M5接头转BNC接头低噪声线缆，长度3.0m
730008-060	102C060	M5接头转BNC接头低噪声线缆，长度6.0m
730008-090	102C090	M5接头转BNC接头低噪声线缆，长度9.0m
730008-000	102C	M5接头转BNC接头低噪声线缆，可定制长度

在无深圳市美格信测控技术有限公司优先书面授权书前提下，此出版物任何一个部分不可通过任何形式进行复制、修改和翻译。对于非法复制、修改和翻译商业行为，将根据国家知识产权相关法律追求其法律责任。

Product introduction



ACC 1826 Uniaxial Accelerometer

The ACC 1826 accelerometer is a piezoelectric acceleration sensor. It incorporates a built-in charge amplifier and uses piezoelectric ceramic materials for its sensing element, which ensures excellent performance and sufficient long-term stability over extended use.

A coaxial cable supplies the sensor with a constant current power source of 2 – 10 mA, and the output signal is also transmitted through the same coaxial cable. This configuration is internationally known as the IEPE interface.

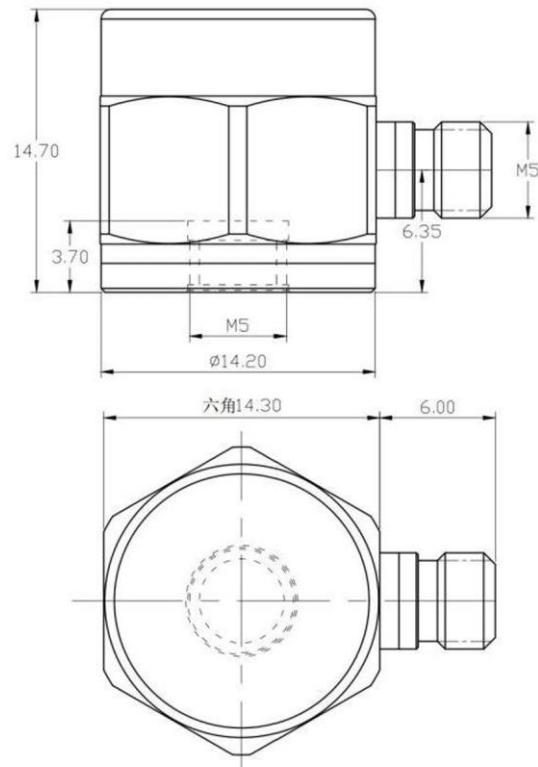
Features

- Shear structure design, wide frequency response range
- Small size, high sensitivity

Specification parameters

Accelerometer parameters	
Sensitivity	500mV/g (±10%)
Measuring range	±10g
Frequency range	2Hz - 10kHz (±5%) 1Hz - 12kHz (±10%)
Transverse sensitivity	≤5%
Amplitude linearity	≤1%
Broadband resolution	0.0002grms
Mounted resonant frequency	≥30kHz
Shock resistance	3000g pk
Operating voltage range	+20 - +30VDC
Operating current range	+2 - +20mA (typical 4mA)
Operating temperature range	-40 - +80°C
Bias voltage	8 - 12 V
Output impedance	< 100 Ω
Sealing method	Laser welding
Sensing element material	Piezoelectric ceramic
Housing material	Titanium alloy
Structural type	Shear
Weight	8.5g
Output type	M5 side-exit output
Mounting method	M5 thread

Mechanical structure



Ordering Information

PN	Model	Description
900015-71	ACC 1826	Uniaxial Accelerometer
960034-01	PM 6183	Data Acquisition Card
730008-030	102C030	M5 Plug to BNC Plug low noise cable, length 3.0m
730008-060	102C060	M5 Plug to BNC Plug low noise cable, length 6.0m
730008-090	102C090	M5 Plug to BNC Plug low noise cable, length 9.0m
730008-000	102C	M5 Plug to BNC Plug low noise cable, customizable length.

Without the prior written authorization of Shenzhen MegaSig Measurement And Control Technology CO LTD. no part of this publication may be reproduced, modified or translated in any form. Legal liability will be pursued in accordance with the national laws on intellectual property rights for commercial activities involving illegal reproduction, modification or translation.