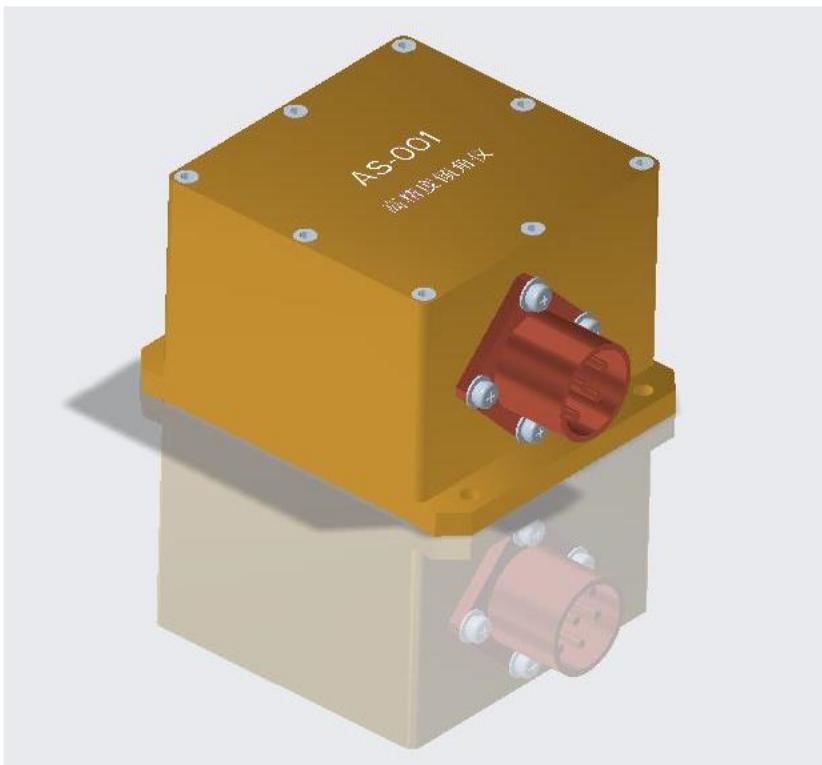


## High -precision inclination instrument

Model: AS-001



### Product Features

AS001 is a three-axis accelerometer based on micromechanical technology.

The speedometer adopts advanced signal processing algorithm technology to obtain high precision under complex working conditions.

Degree inclination information. This product benchmarks the performance of the servo inclinometer and adopts 4~20mA simulation

There are two forms of output and digital output.

### Application scenarios

- The structure alignment (rolling machine, AC generator, etc.)
- A safety detection (crane, maritime platform)
- D horizontal measurement (road, railway track)
- Re angle measurement
- The positioning of shooting platform, radar antenna

### Product Features

- The performance of the servo inclination instrument, the inclination accuracy is better than 0.01 °
- Purametal range: -40 ~ 65 °C
- The high anti -impact and vibration resistance capacity, vibration environmental performance is not disordered
- In IP65 sealed shell, suitable for harsh environments
- The interface type is rich, supporting standard interfaces such as RS422, current/voltage output

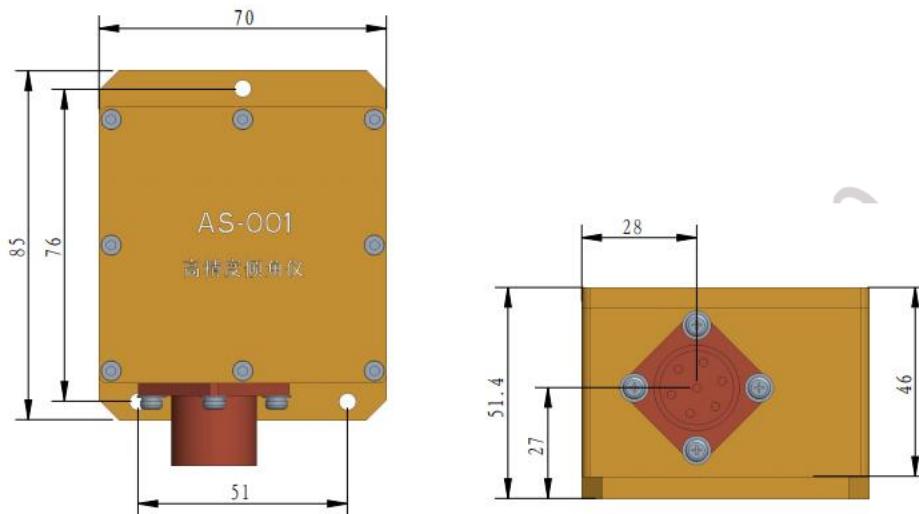


-He high reliability

## Electrical characteristics

- Delectrical power supply: 24V DC (typical value)
- Reze power: 1.5W (maximum value)
- The ripple: 100mv (peak value)

## Mechanical Dimensions



## Technical indicators

| Environmental parameters |  |
|--------------------------|--|
| Operating temperature    | -40°C 至 +80°C<br>-40 °C to +80 °C  |
| Storage temperature      | -55°C 至 +85°C<br>-55 °C to +85 °C  |
| Network                  | NF EN 61326 (Industry)   |
| Shock                    | 5g/20Hz 至 500Hz<br>5g/20Hz to 500Hz  |
| Impact                   | 200g/6ms   |
| Protection               | IP 65  |
| Universal parameter      |  |
| Power supply             | 240V DC, 35mA (max) (4-20mA version: 55mA (max))                               |
| Power consumption        | 60mA (maximum value) (voltage output) / 100mA (maximum value) (current output) |
| Bandwidth                | 2 ~ 10Hz determines according to needs   |
| Output                   | ±5V or 4-20mA or RS422 serial digital output                                   |
| Nonlinear error          | <0.1% FS   |
| Non-repeatability        | <0.05% FS  |

| and hysteresis   |                  |                                     |                                     |
|--|------------------|-------------------------------------|-------------------------------------|
| Cross Axis<br>Sensitivity  | <0.005g/g        |                                     |                                     |
| Deviation  | 0.1% FS          |                                     |                                     |
| Electronic noise   | <2mVrms (0-1kHz) |                                     |                                     |
| Zero temperature<br>drift  | 0.01% FS/°C      |                                     |                                     |
| Sensitivity<br>temperature drift   | 0.01% signal/°C  |                                     |                                     |
| <b>Selection guide</b>   |                  |                                     |                                     |
| Range  | Bandwidth        | Product reference<br>voltage output | Product reference current<br>output |
| ±3°  | 4Hz              | 690 041 489                         | 690 041 485                         |
| ±5.75°   | 4Hz              | 690 041 419                         | 690 041 415                         |
| ±14.5°   | 5Hz              | 690 041 429                         | 690 041 425                         |
| ±30°   | 6Hz              | 690 041 439                         | 690 041 435                         |
| ±45°   | 8Hz              | 690 041 449                         | 690 041 445                         |
| ±90°   | 12Hz             | 690 041 459                         | 690 041 455                         |
| Choose custom  |                  |                                     |                                     |
| Special bandwidth, special range and output signal, zero offset (unipolar output), linearity < 0.05%<br>FS |                  |                                     |                                     |
| Integrated temperature sensor  |                  |                                     |                                     |