



宸軒科技有限公司
CHEN HSUAN TECHNOLOGY CO.,LTD.

半導體廠振動需求

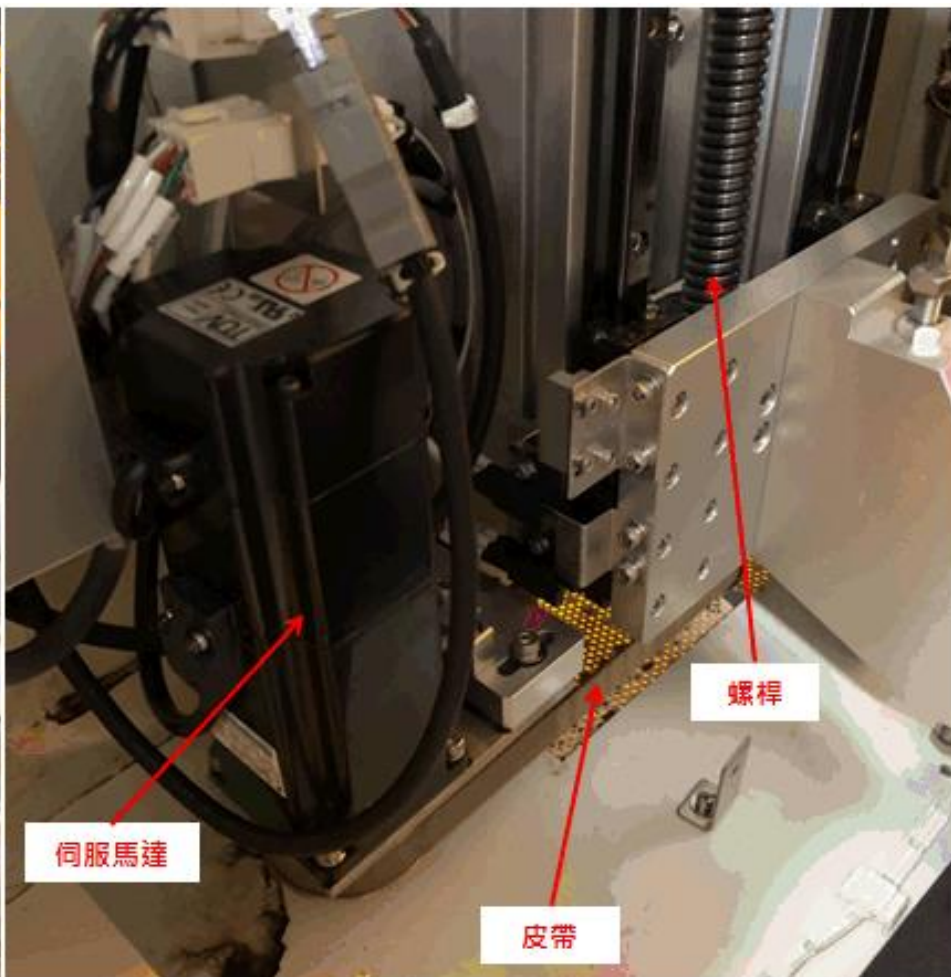
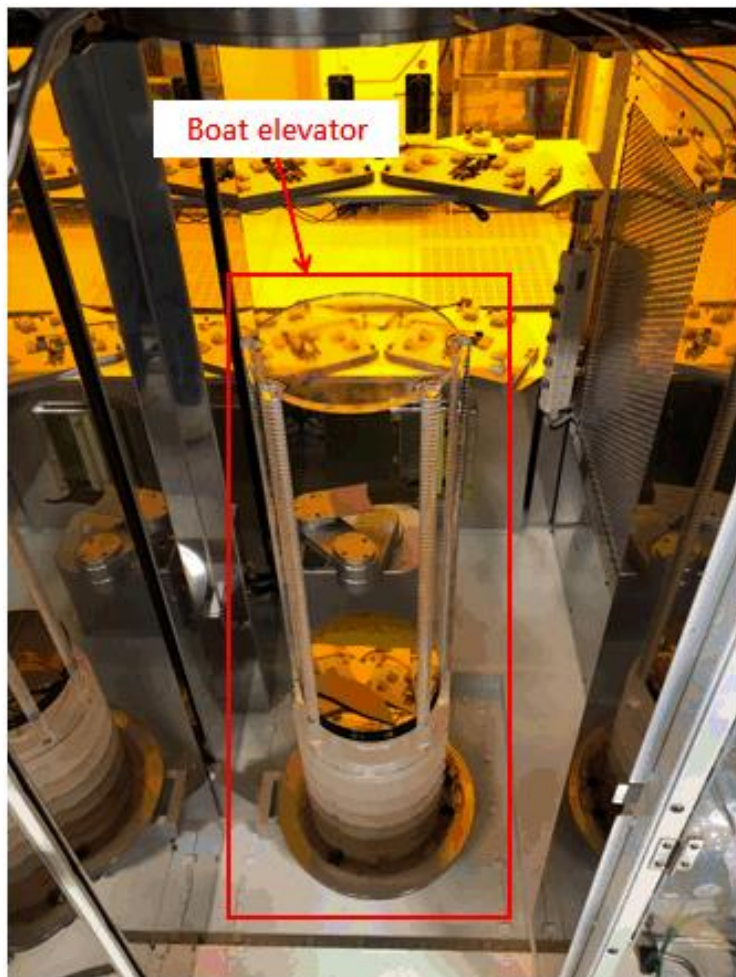


直立式爐管振動分析



宸軒科技有限公司
CHEN HSUAN TECHNOLOGY CO.,LTD.

半導體廠針對廠內Furnace(直立式爐管)機構有加裝振動監控的需求，Furnace 需振動監控的機構為垂直升降的Boat elevator(如下圖所示), 其傳動方式為伺服馬達透過皮帶帶動螺桿升降



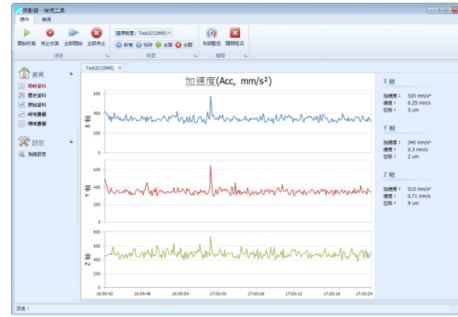
無線藍芽振動監控解決方案



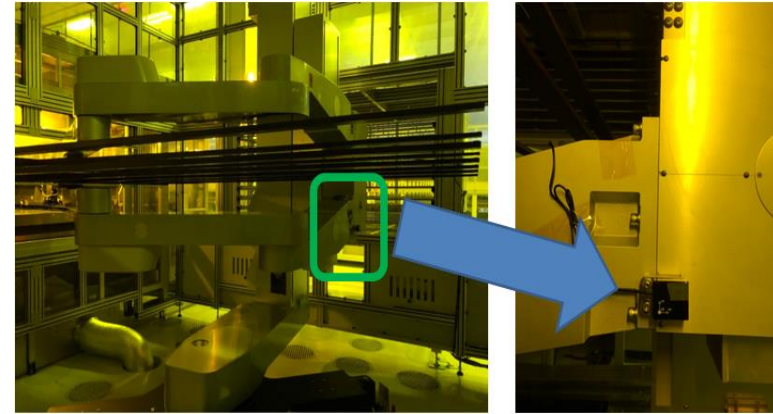
宸軒科技有限公司
CHEN HSUAN TECHNOLOGY CO.,LTD.

FEATURE

- ◇ Time domain vibration chart
- ◇ Frequency domain distribution
- ◇ Historical chart
- ◇ Peak-to-peak acceleration/velocity/displacement
- ◇ User adjustable warning level
- ◇ Auto reconnection capability
- ◇ Lost connection warning
- ◇ Chart overlapping
- ◇ Time/frequency domain chart/data export
- ◇ SD card storage function
- ◇ Range 300 m (Line of Sight)

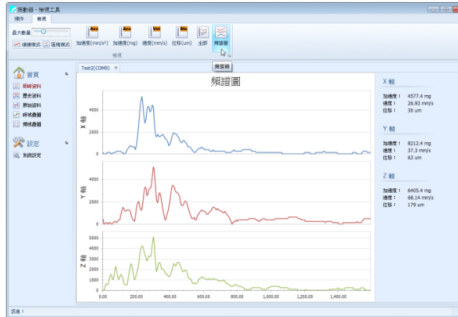


I廠商使用振動計監看應用例



DYNAMIC PERFORMANCE

- Measurement Range ±4 g
 Frequency Response 10 ~ 1200 Hz (MGVB-1200)
 2 ~ 50 Hz (MGVB-50, coming soon)
 Resolution 1 mg
 Sensor Shock Limit (Max) 10,000 g

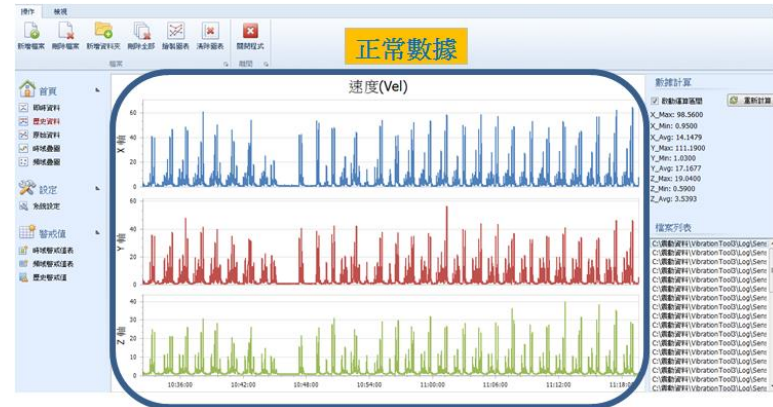


BLUETOOTH

- Frequency 2.402 ~ 2.480 GHz
 Standard Bluetooth v2.1
 RF Output Power 18 ±dBm (Class 1)
 RF Antenna Built-in

SPECIFICATIONS

- Dimensions 54x50x27 mm
 Weight 110 g (meter only)
 Input Voltage DC 5V
 Current (Max) 100 mA
 Power Consumption 250 mW
 Operating Temperature 0 ~ 60 °C



POE有線藍芽振動解決方案



宸軒科技有限公司
CHEN HSUAN TECHNOLOGY CO.,LTD.

3-Axis MEMS Accelerometers

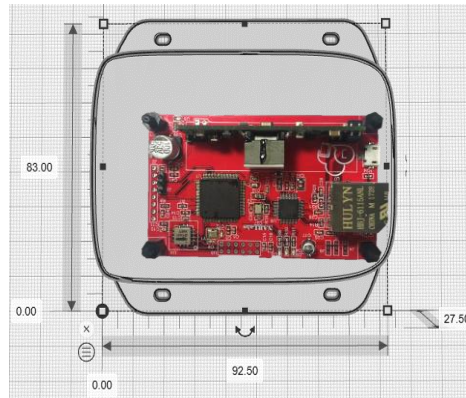
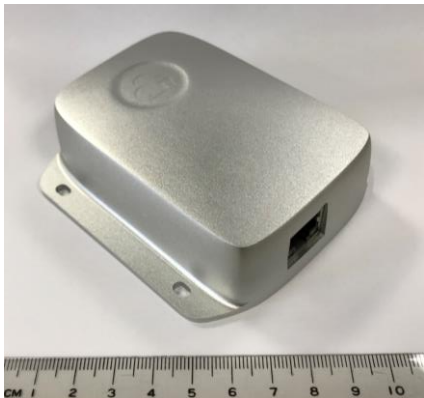
- Sensitivity: $\pm 2\text{ g}$, $\pm 4\text{ g}$, $\pm 8\text{ g}$
- Noise density: $25\mu\text{g}/\sqrt{\text{Hz}}$
- Output data rate: 1KHz , 2KHz , 4KHz
- Resolution: 20Bit
- Sensitivity:
 - $\pm 2\text{ g}$: $256,000\text{ LSB/g}$
 - $\pm 4\text{ g}$: $128,000\text{ LSB/g}$
 - $\pm 8\text{ g}$: $64,000\text{ LSB/g}$

Integrated temperature sensor

- Operating rang $-40\sim+80\text{ }^{\circ}\text{C}$

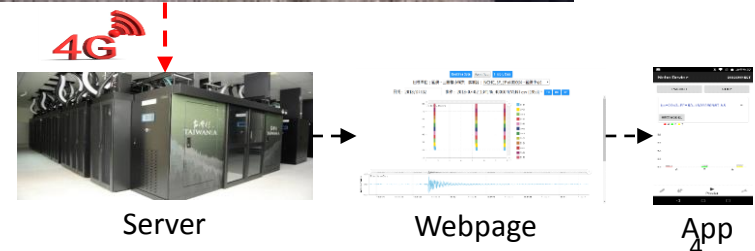
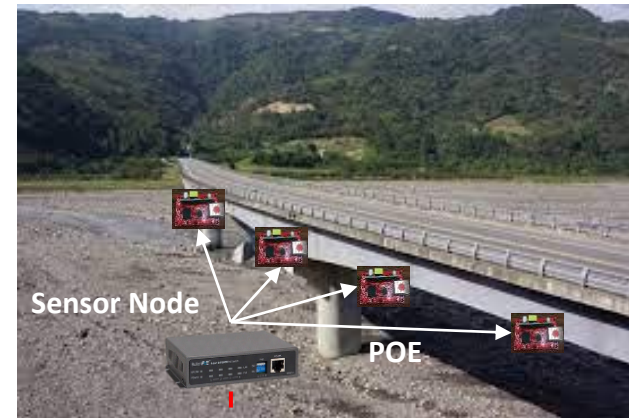
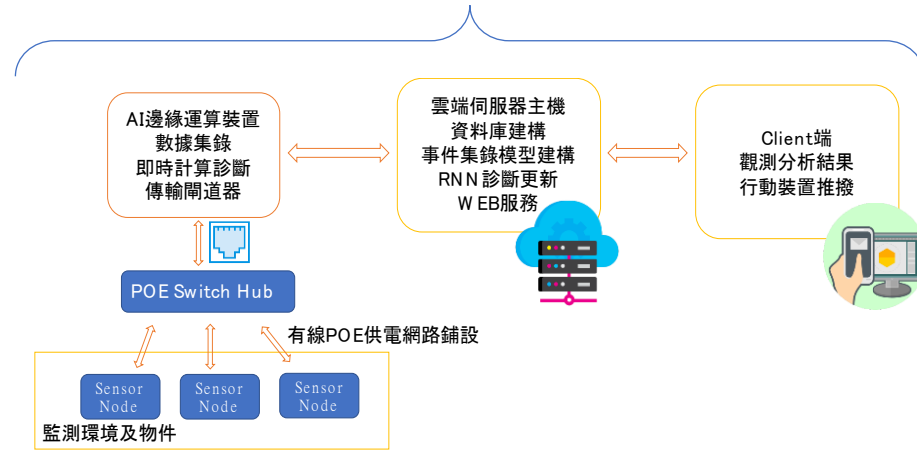
Power Over Ethernet(Mode B)

- IEEE 802.3af
- One RJ45 connector.
- 10/100 Base-T Ethernet interface.
- TCP/IP Protocol



CHEN HSUAN TECHNOLOGY CO.,LTD

宜蘭牛鬥橋使用振動計監看應用例





Thank you