



# Wireless 3-axis Accelerometer Sensor

R718E / R718EC



**R718E/R718EC** is a three-axis accelerometer device that can measure velocity and acceleration up to  $\pm 16g$ . It is suitable for vibration equipment such as motors. Users can clearly know the motor status, including abnormality and malfunction by its speed and acceleration data, which helps your machine operate in the best condition. It is also equipped with an NTC surface thermometer to monitor the motor temperature.

## Wireless Accelerometer and Surface Temperature Sensor

- Compatible with LoRaWAN™ Class A  
2\* 3.6v ER14505 lithium batteries  
Internal 3-axis acceleration sensor  
3-axis acceleration detection :  $\pm 16g$   
NTC temperature range :  $-40^{\circ}\text{C}$  to  $120^{\circ}\text{C}$

- Protection level: Main body-IP65/IP67, sensor-IP67

- Battery life : 3.5 years / 60mins

- Easy installation: Magnetic base to attach to motors or any ferromagnetic object



R718E

**Acceleration**  
Unit :  $\text{m/s}^2$

**Velocity**  
Unit :  $\text{mms}$

**Temperature**  
Unit :  $0.1^{\circ}\text{C}$

- Compatible with LoRaWAN™ Class A  
2\* 3.6v ER14505 lithium batteries  
External 3-axis acceleration sensor  
3-axis acceleration detection:  $\pm 16g$   
NTC temperature range :  $-40^{\circ}\text{C}$  to  $120^{\circ}\text{C}$

- Protection level: Main body-IP65/IP67, sensor-IP67

- Battery life : 3 years / 60mins

- R718EC is magnetic and can be attached to ferromagnetic objects.  
High Accuracy: ISO 10186 standard to evaluate motor vibration



R718EC

**Acceleration**  
Unit :  $\text{m/s}^2$

**Velocity**  
Unit :  $\text{mms}$

**Temperature**  
Unit :  $0.1^{\circ}\text{C}$

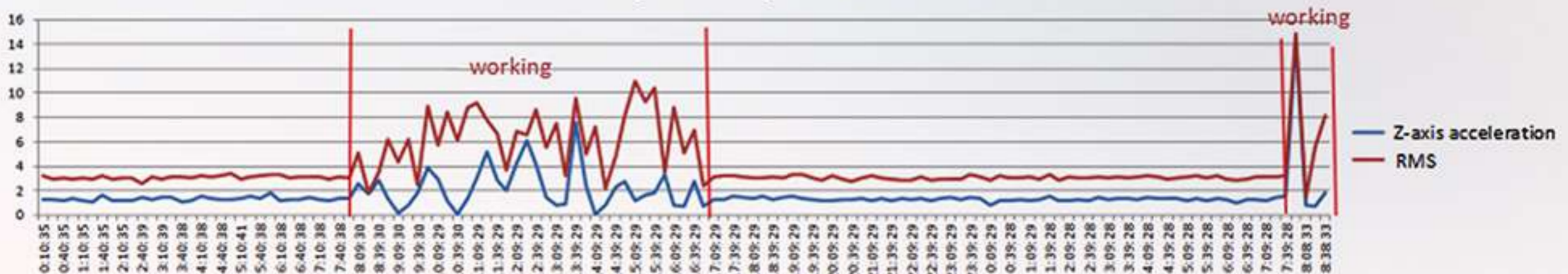
# R718E vs R718EC Cross Reference Table

	718E	718EC
Acceleration sensor	Build in	External
NTC temperature range	-40°C to 120 °C	-40°C to 120 °C
IP	65	65
Battery life	3.5 year	3 year
Advantages	Easy installation Magnetic base to attach to motors	High Accuracy ISO 10186 standard to evaluate motor vibration
Accuracy	<b>+20%</b>	<b>+9%</b>

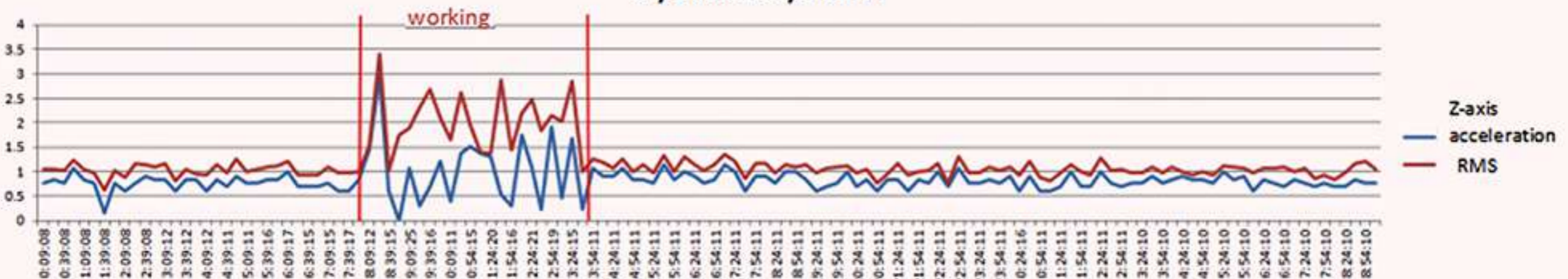
## Machine Vibration Observation Chart



Air compressor (EFC4)  
12/2 00:00-12/3 08:38



Injection molding machine (EFC5)  
12/2 00:00-12/3 08:54



# Wireless 3-axis Tilt Angle Sensor

R718EA / R718EB



**R718EA/R718EB** is a device with a built-in tilt sensor, which is suitable for detecting a  $\pm 90^\circ$  tilt angle. It can be installed on pillars, utility posts, and other items that require directional identification. In order to avoid the danger of falling and going for maintenance immediately, the angle threshold can also be customized to give alarm.

## Wireless Tilt Angle and Surface Temperature Sensor



Compatible with LoRaWAN™ Class A  
2\* 3.6v ER14505 lithium batteries  
Built-in 3-axis tilt sensor  
Tilt Angle Measurement Range:  $\pm 90^\circ$   
NTC temperature range:  $-40^\circ\text{C}$  to  $120^\circ\text{C}$



Protection level: Main body-IP65/IP67, sensor-IP67



Battery life: 4.1 years / 60mins



R718EA is magnetic and can be attached to ferromagnetic objects.

3-axis Angle  
Unit:  $1^\circ$

Temperature  
Unit:  $0.1^\circ\text{C}$



Compatible with LoRaWAN™ Class A  
2\* 3.6v ER14505 lithium batteries  
Built-in 3-axis tilt sensor  
Tilt Angle Measurement Range:  $\pm 90^\circ$



Protection level: Main body-IP65/IP67



Battery life: 4.1 years / 60mins



R718EB is magnetic and can be attached to ferromagnetic objects.

3-axis Angle  
Unit:  $0.1^\circ / 0.005^\circ$

