

## INTRODUCTION

Wind speed sensor with sound and light alarms. Designed in accordance with ITC MIE-AEM-2 for elevation and maintenance apparatus regulations regarding tower cranes in construction works and other applications.

The **long and successful trajectory of our previous model SAG-105** assures the quality of this new model. **2 year guarantee** period is offered with this new model. Supplied **pre-wired** and attached with **magnets**, this model is **simple and easy to install**.

Its shape allows the air to flow around it **without creating any turbulence**.

The use of a magnetic sensor allows product hermeticism.

Patented.

## OPERATION

The device performs under the ITC MIE-AEM-2 guidelines. Intermittent pre-alarm activation at 50 km/h, and continuous alarm activate at 70 km/h.

The unit includes the possibility of **reducing alarm trigger values** to increase safety (see table 1).

The pre-alarm intermittently activates the yellow beacon light. The pre-alarm is activated when wind speed is between 50 km/h and 70 km/h or between the choosen values from table 1.

The continuous alarm activates the red beacon light and the siren. This alarm is triggered when its value is exceeded (typically 70 km/h) and disabled when the unit supply is cut off, as required by some regional standards. **Continuous latch alarm** is configurable (see table 1) latching or no-latching.

The **installation** of the device on the crane is **reduced to a minimum** only requiring **mechanical fixation using clamps or magnets** and **power connection from the electric cabinet**.

The unit is supplied and wired with 3x1.5, 1000 V wire cable **in accordance with Low Voltage Regulations**.

All design and production processes at IED comply with the **ISO 9001 standard**.



**Power supply voltage :**

- Supplied with 10 m of 3x1.5, 1000 V wire cable in accordance with Low Voltage Regulations.
- Wide range power supply : from 48 to 400 Vac.

**Anemometric alarm**



Built-in a compact configuration including the wind speed sensor, the electronics, the lights beacon, and the sound beacon. This model requires minimal installation.

**Fixation** (clamps and magnets supplied)

**Clams fixation**



The clamp fixation system is the most suitable to fix the unit to **irregular parts**.

The zinc plated steel clamps can be fixed to irregular parts measuring up to 63 x 45 mm.

**Magnets fixation**



The magnet fixation system is **easier and faster**. It needs a flat surface where all 4 magnets can be placed.

The magnet fixation system can **support up to 90 kg**.

**Other options:**

<b>Wind tunnel calibration certificate</b>	The magnet fixation system can <b>support up to 90 kg</b> .
<b>Pulses output</b>	It can be supplied with pulses output to a display or any other device (see our displays WM44 series).
<b>Integration with remote control</b>	Suitable to view wind speed on the remote control.
<b>Relay outputs</b>	To drive other mechanisms or alarm signals. Crane power supply automatic cut-off at alarm activation is not recommended due to cranes structural overstress.

**Alarm and pre-alarm adjustment (table 1).** Default configuration: sw1 ON, sw2 ON, sw3 OFF, sw4 OFF.



**Switch 1.** (on) continuous alarm latching . (off) non-latching .



**Switch 4 .** Factory adjusted. Do not touch.

**Switches 2 and 3** configure the values of the alarm and pre-alarm.



**Pre-alarm**      **Alarm**

**50 km/**      **70 k /h**      Pre-alarm activates intermittently the yellow beacon light and the siren. Activacion at 50 km/h. Alarm activates the red beacon light and the siren permanently. Activation at 70 km/h.



**46 km/h**      **65 km/h**      Pre-alarm activates intermittently the yellow beacon light and the siren. Activacion at 46 km/h. Alarm activates the red beacon light and the siren permanently. Activation at 65 km/h.



**43 km/h**      **60 km/h**      Pre-alarm activates intermittently the yellow beacon light and the siren. Activacion at 43 km/h. Alarm activates the red beacon light and the siren permanently. Activation at 60 km/h.



**40 km/h**      **55 km/h**      Pre-alarm activates intermittently the yellow beacon light and the siren. Activacion at 40 km/h. Alarm activates the red beacon light and the siren permanently. Activation at 55 km/h.

## TECHNICAL CHARACTERISTICS

<b>Power supply</b>	48... 400 Vac 50/60 hz	<b>Sound power level</b>	115dB
<b>Power consumption</b>	6VA (0.5VA stand-by)	<b>Luminous intensity yellow beacon</b>	> 100cd
<b>Operating temperature</b>	-20 a 60°C (ice-free)	<b>Luminous intensity red</b>	> 80cd
<b>IP protection level</b>	IP55	<b>Magnet holding power</b>	> 90kg
<b>Dimensions</b>	195 x 150 x 270 mm	<b>Measurement range</b>	0 - 200 km/h
		<b>Weight (with cable)</b>	3 kg approx.



Pol. Plazaola, Manzana E - Nave 6.  
31195 Aizoáin Navarra España.  
T +34 948 351 399 F +34 948 351 401  
info@iedelectronics.com



[www.iedelectronics.com](http://www.iedelectronics.com)