# Itowa

*Radio Remote Control Systems*

## VERSATILE, SAFE, STRONG, ECONOMIC...

The Itowa anemometric indicator meets the requeriments of the ITC "MIE-AEM-2" of the Regulations of Lifting and Maintenance Apparatus, activating flashing light and intermittent acoustic signals when the wind speed reaches 50 Km/hr. (ambar light) and fixed signals when this speed reaches 70Km/hr. (red light).

But this isn´t all.... Itowa has developed on anemometer with innovative mechanics and technology, guaranteeing easy installation and economic maintenance.

We invite you to learn about what is probably the best anemometric indicator for cranes on the market.

# ANEMOMETER

## Anemometric indicator for Cranes

The Itowa anemometric indicator offers various installation options, from the convenience of the magnet system to the versatility of quick fastening adaptable to all surfaces or backing.

Thanks to its innovative design, accessibility of these apparatus is easy, quick and safe by means of a simple 2-screw cover fastening.

The quality of the materials used provides the highest visual and acoustic power and reliability. It can even support voltage drops of up to 15 seconds.

The personalisation options will enable you to adjust the "autotest" function signals, change the activation of signals for wind speeds less than 50/70 km/hr, reset the equipment when a maximum wind speed is detected, or to cancel the acoustic signal where necessary (hospitals, residential areas, etc...).

It can also be optionally supplied with an external sensor (with foldable stand), a metal sensor (heated or unheated) and with an RS485 output port for peripherals (display, recorder, etc...).

## TECHNICAL SPECIFICATIONS  Anemometer

### ANEMOMETRIC INDICATOR

| | |
|---|---|
| Sensor | Optic measurement principle |
| | Measurement range 0-30 m/s (0-108 Km/hr) |
| | Resolution 0.06 m/s |
| Horn | Dual tone - 110 dB |
| Lights | High luminosity led (100 million cycles) |
| | Ambar triangle for warning signal (55 candelas) |
| | Red circle for alarm signal (98 candelas) |
| Frequency | Flashes of 1 Hz (60/min) |
| Power supply | 48/115/230/400 Vac - 10 VA |
| Working temperature | -20 a + 60 °C |
| Protection | IP 65 |
| Dimensions | 306 x 226 x 170 mm |
| Fastening | 4 mm bichromate steel |
| Weight | 2.5 Kgs (with standard stand) |
| Optional features | Fastening by magnets |
| | External sensor (with foldable stand). |
| | RS485 output (to connect display, recorder, etc...) |
| | 2 relay outputs with switched contact |
| | Personalised speed release configuration. |
| | Metal or heated/metal sensor |

### RECORDER OF EVENTS

| | |
|---|---|
| Outputs | 3 switched relays 0.6 A-125Vac |
| | (>50 km/h, >70 km/hr, |
| | full memory indicator) |
| Led display | >50km/h ,  >70 km/hr. |
| LCD display | Date, time, instant speed in Km/hr, |
| | error messages (2x16 Characters) |
| Inputs | 8 opto-coupled digital inputs |
| | 1  RS485 sensor data input |
| Memory | 64 Mb plug-in |
| | Estimated capacity for 10 years |
| | (at 200 readings/day) |
| Power supply | 48/115/230 Vac |
| Working temperature | -20 to +60°C |
| Dimensions | 160x 125 x 100 mm |
| Assembly | DIN Rail (Protection IP20) |
| Information to PC | Driver and communication software |
| | Management software (data base). |
| Date, time and value readings | Up to 7 events |
| | Connection and disconnection of recorder power supply |
| | On/off of general contactor of the machine.  Instant speed every hour |
| | Whenever the wind speed is above 50 Km/hr, below 50, |
| | above 70 or below 70 |

### RECORDER OF EVENTS

| | |
|---|---|
| Outputs | 2 switched relays 0.6A - 125Vac,(>50km/hr, >70km/hr) |
| Display | Instant speed (up to 250 Km/hr), communication error messages. |
| Led display | >50 km/hr "Warning" >70 km/hr "Alarm". |
| Anemometer input | RS485. Several units can be connected in parallel. |
| Power supply | 48/115/230 Vac |
| Working temperature | -20 to + 60° C |
| Dimensions | 53 x 93 x 70 mm |
| Assembly | DIN rail (Protection  IP20) |
| Optional protection degree | IP66 by means of additional box |
| | (measurements 130 x 130 x 75 mm). |

11/2012

# Itowa ®

*Radio Remote Control Systems*

Design and specifications subject to modifications without prior warning.