WM 44-P

Anemometer display unit for panels with alarms for cranes. Installation Panel.

INTRODUCTION

Display unit and wind speed sensor with pre-alarm and alarm. Ideal in conjunction with the Anemo4403 sensor. Adaptable to a wide range of anemometer sensors.

Pre-alarm (ALARM1) and Alarm (ALARM2).Designed for panel mounting, such as in electrical cabinets.

Especially designed for construction cranes.

For installation on DIN RAIL see model WM44-P.

FEATURES

Display

3-digit wind read out.

2 alarm indicator LEDs enabled "AL1 and AL2".

Wind speed in km/h and mph.

Programming in kilometres/hour (km/h) or in miles/hour (mph). *P01*

You can switch between km/h and mph at any time by pressing "Select", a user accessible button.

Alarms

The alarm is triggered when the programmed value is reached or surpassed and it has includes a delay to prevent false alarms due to short gusts.

The alarm is disabled when the wind speed drops below the programmed value and provided this condition persists for a minimum period.

When ALARM 2 is enabled ALARM 1 is disabled.

When ALARM 2 is enabled, the reading on the display will blink, as a warning.

Alarms can be programmed for the following: trigger values, intermittent or continuous, interlocked (only alarm2).

The alarm outputs are through voltage-free relay contacts. Choice between: on contact open or on contact close.

Possibility of alarm interlock 2. With the alarm disabled when the unit's power supply is cut off.

Anemometer sensors

Suitable for a wide range of sensors:

Power supply sensors: 20 V or 10 VDC, from the unit itself.

types : 3-wire and 2-wire (see examples on faceplate connections from the unit itself).

We RECOMMEND pairing the unit with our Anemo4403 model.

Preset user program configuration

In addition to user-programmed another, alternative programming can be saved in memory. This can be retrieved any time by going to the program step. *P00 option 4*.

PROGRAMMING

To access the programming buttons, raise the faceplate prying the lower section open, where it says "open to program".

To enter programming, press the UP and Escape buttons simultaneously for 2 seconds.

Button functions in programming mode

Pushbutton	Function
UP	Moves up program steps (P00, P01..), options or values to be programmed.
DOWN	Moves down program steps, options or values
ENTER	Enters the program step currently displayed, validates options and values and exits program step.
ESC	Returns to program steps. Selects the digit to be modified within the range.

Program steps

P00: (1) Exits programming without recording data, (2) Exits recording the data, (3) Exits recording the data as "predetermined user configuration", (4) Exits retrieving the data for "predetermined user configuration" if you keep ENTER pressed down for more than 10 seconds.

P01: (1): For programming in miles/hour (0): For programming in km/h < 0 >

P02: Reference speed to be displayed (1 – 999). <100>

P03: Number of hertz corresponding to the value programmed in the previous step. (1 – 999) <105 >

P04: Function of ALARM1 (0- disabled 1- alarm enabled with relay enabled 2- alarm enabled with relay at rest.) <1>

P05: Trigger value for AL1. <50>

P06: ALARM1 continuous (0), ALARM1 intermittent (1). <1>

P07: Time alarm ON, provided your selection in P06=1 (2 a 999) was tenths of a second <10>

P08: Time alarm OFF, provided your selection in P06=1 (2 a 999) was tenths of a second <50>

P09: Same as P04 but for ALARM2. <1>

P10: Same as P05 but for ALARM2. <70> When the alarm value is exceeded, the reading will be intermittent.

P11: Same as P06 but for ALARM2. <0>

P12: Same as P07 but for ALARM2 <5>

P13: Same as P08 but for ALARM2 <5>

P14: (0) Alarm2 does not lock in, (1) Alarm2 is locked in and the only way of unlocking it is by cutting off the power supply.

Locking in = hooking up or remaining connected. <0>

Notes

Values in bold face between angle brackets "< >" are the factory default values (ied s,l) and the values that work with the Onix Anemo4403 model sensor.

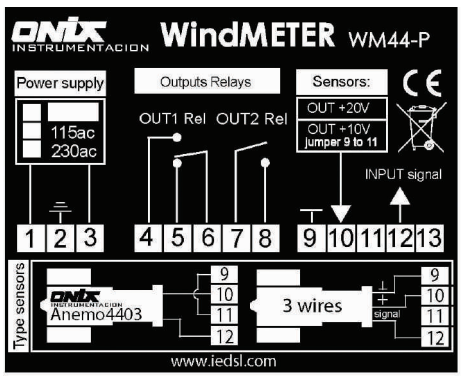
alarm 1 is triggered at 50 km/h, Alarm 2 at 70 km/h, Alarm 1 is intermittent with relay enabled for 1 second and disabled for 5 seconds, while Alarm 2 is continuous. in accordance with the guidelines set out in the ITC MIE-AME-2.

Clients can program the unit to comply with local safety regulations.

TECHNICAL CHARACTERISTICS

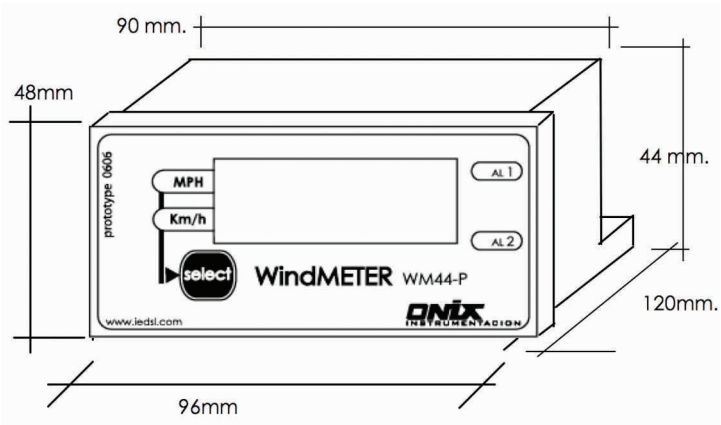
Power supply	230 VAC 50-60 Hz (other voltages, please consult us)
Power consumption	< 3,5VA
Input signal	periodic square, sine-wave, triangular. 1 to 750 Hz . 5 to 35 VDC or 4 to 24 VAC.
Relay contacts	4 Amps 250Vac.
Input impedance	-For Anemo4403 sensor or namur connection : 1000 Ω -Direct: 10 kΩ
Types of input: Compatible sensors	- Sensor mod. onix Anemo4403 - 3-wire sensors (pnp,npn..) - namur - Direct outside signal (see "**Input signal**")
Output power supply sensors	10 ó 20Vdc (+-10%)
Operating temperature	-20°C a 70°C
Reading precision (100 Hz=100 km/h)	+- 1
Maximum speed	999Km/h /620MPH
Non-condensing relative humidity in accordance with IEC 68-2-3 and IEC 68-2-27	
Shocks in accordance with IEC 68-2-27	
Vibrations in accordance with IEC 68-2-6	
IP protection level	IP50
Approximate weight	0,350Kg approx.

Connections



faceplate connections

Dimensions



Namur type sensors have the same connection as the ONIX Anemo4403 sensor.
- Input direct outside signal: terminals 9 and 13.
- Do not connect two types of input at the same time.