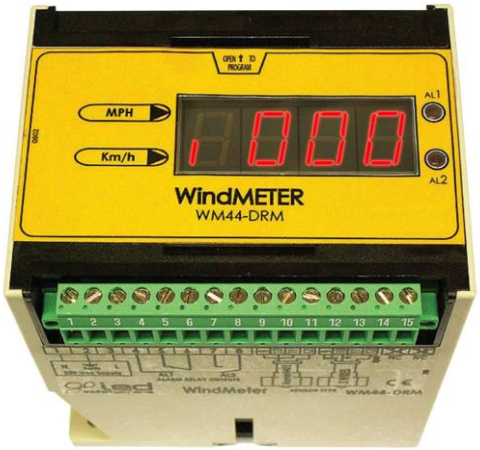
ANSC - WM44-DRM V3

Anemometer display with programmble realy output – Din Rail mounted



WM44-DRM

The WM44-DRM WInd speed Display is a device with high accuracy with 2 programmable threshold output. It is particularly designed to work with ANEMO4403 but it can work also with a huge range of anemometers.

2 programmable thresholds (ALARM 1 and ALARM 2). The device can be easy mounted on a front door of electric panel.

Specially developed for tower cranes sector.

PANEL VIEW

- 3 digit LED Display (height 14 mm)
- 2 LED alarm status indicator (AL1 e AL2)
- LED speed unit indicator (Km/h o Mph)
- Automatic deactivation of the relay under the threshold level
- Signalling by flashing display of intervention (AL2)
- Selecting the mode for the alarm (intermittent, continuous, considered)

Each set point, offers a user adjustable time delay to determine when the relay should operate after the set point has been exceeded so if the wind speed drops below the set point speed before the time delay expires, then the alarm relay will not be activated.
When the wind speed falls and remains below the alarm set point also for a brief period of time, the alarms will be deactivated
The activation of ALARM 2, deactivates ALARM 1 . When ALARM 2 is on , the displays reading flashes to warn the operator of imminent danger.
Selectable alarm type : intermittent, continuous, latched. The alarm relays are equipped with free-voltage contacts. Each output relay, can be normally energized or de-energized at tripping.
In the latching mode, the alarm 2 relay energizes when the wind speed set point is exceeded and remains energized until the equipment is switched off.

ANEMOMETRIC SENSOR

Compatible with most common wind sensors:

- Sensor power supply: 20V or 10Vdc
- Type : 3 or 2 wires (see the wiring diagram)
- RECOMMENDED working with our Anemo 4403 sensor device

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USER PREDEFINED INSTALLING CONFIGURATION

Apart from user programmed parameters, you can save another alternative configuration, and you can recover it as many times you want, going back to P01 program step (option 4).

PROGRAMMING

To access the configuration buttons, lever up the frontal cover in the lower crack indicated by “open to program”.
To enter the configuration mode, press Enter and Escape buttons simultaneously for more than 2 seconds.

Function buttons in program mode:

Button	Function
↑ **UP**	Increase program steps (P00,P01..), options or thresholds to program
↓ **DOWN**	Decrease program steps, options or thresholds to program
↵ **ENTER**	Enter into the program step where it is located, validate options and thresholds and escapes to step
← **ESC**	Return to program steps. In range, it selects the digit to modify

Programmation Parameters:

P00 (1) Exit program mode without saving data,
(2) Exit program mode saving data,
(3) Exit program mode aplying “preset user configuration,
(4) Exit program saving data as “preset user configuration”
data by pressing ”ENTER” for more than 10sec.
P01 (0) Programming in km / h,
(1) Programming in MPH,
(2) Programming in m / s. **[0]**
P02 Reference speed value. (1-999) **[100]**
P03 Hz corresponding to the reference speed value P02. (1-999) **[121]**
P04 Speed-Hz ratio offset (0-999) **[3]**
P05 ALARM1.
(0) Disabled,
(1) OUT1 Relay closes NO contact ,
(2) OUT1 Relay opens NO contact. **[1]**
P06 ALARM1. Trigger value (1-999). **[50]**
P07 ALARM1. Mode.
(0) Continuous mode,
(1) Intermittent mode. **[1]**
P08 ALARM1. Only for intermittent mode (P07 = 1). Alarm ON time in tenths of seconds (1-99). **[10]**
P09 ALARM1. Only for intermittent mode (P07 = 1). Alarm OFF time in tenths of seconds (1-99). **[50]**
P10 ALARM2 operation,
(0) Disabled,
(1) OUT2 Relay closes contact,
(2) OUT2 Relay opens contact. **[1]**
P11 ALARM 2. Same as P06 ALARM ALARM1. **[70]** *(when this value is exceeded, the displayed value blinks as a warning).*
P12 ALARM2. Same as ALARM1 P07. **[0]**
P13 ALARM2. Same as ALARM1 P08. **[5]**
P14 ALARM2. Same as ALARM1 P09. **[5]**
P15 ALARM2. Configuration latching.
(0) Non-latching,
(1) Latching **[0]** *(Power off to release).*
P16 Analogue output (only for those devices that have it).
(0) Disabled, (1-999) Wind speed value corresponding to the highest value of the 10V or 20mA analogue output.
P17 ALARM1. Activation delay in seconds (0-999). **[2]**
P18 ALARM1. Deactivation delay in seconds (0-999). **[5]**
P19 ALARM2. Activation delay in seconds (0-999). **[2]**
P20 ALARM2. Deactivation delay in seconds (0-999). **[5]**

NOTE:

Factory default values, are enclosed in angle brackets "< >".

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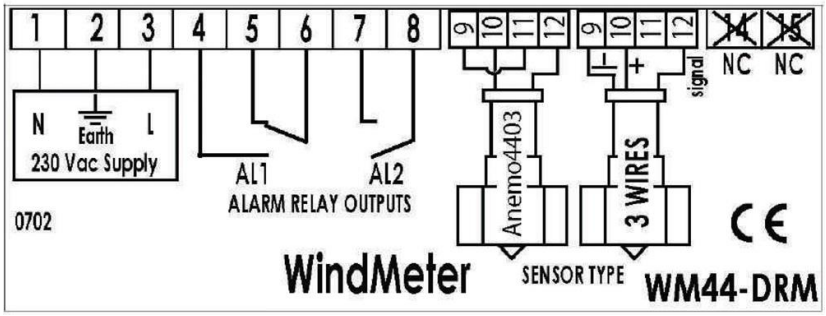
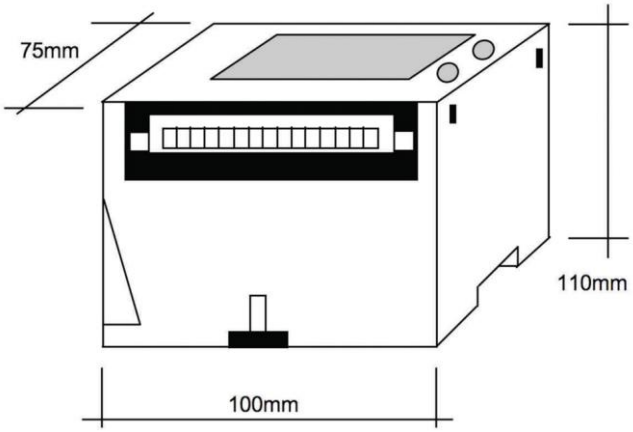
Technical Features

- Available power supply: 230 Vac 50/60Hz
- Current consumption equal / less than 3 VA
- Signal input frequency from 1 to 750 Hz - from 5 to 35 Vcc or from 4 to 24Vca.
- Voltage signal input 5 - 35 Vdc +-10%
- Impedance input sensorANEMO4403 o Namur: 1000 Ω
- Power supply output voltage sensor 10 or 20 Vcc (+-10%)
- 2 thresholds programmable relay
- Relay contact 4 A - 250 Vac
- Operating temperature 0°C +60°C
- Accuracy at 100 Hz + - 1%
- Maximum measurable speed 999 Km/h - 610 mph
- IP20
- Weight 450 g

Electrical Features



Wiring Diagram



Dimensions

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Pre-assembled Equipments

On request, are available pre-assembled equipment for crane consists of:

- Anemometer SAG105WR with pulse output or ANEMO4403
- Schneider Electric alarm beacon
- Magnet for a rapid fox of the component
- Lenght of cable need to be requested

ANEMO4403

SAG105WR

RED LED fixed

ORANGE flash

Buzzer

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