GB US

SKYWATCH® WWS
Wind Warning System
Instructions for use

This instrument was developed for protecting persons and properties that may be subject to strong winds. It consists of 2 parts:

1. A display unit of the wind force, with 4 programmable warning thresholds.
2. A multidirectional turbine (wind sensor) enabling measurement of the wind in the horizontal plane and in the vertical as well (turbulence behind objects). The turbine sends its signal magnetically to a transducer located at the end of the cable connected to the display. This transmission system simplifies the installation process.

The SKYWATCH WWS operates from two 1.5 V batteries of type LR6/AA/AM3 (sufficient for over 2 years without replacement) and equally well from an external supply of 6 to 30 VDC (cigar lighter socket, mains power etc.). When an AC-DC adapter is connected, the batteries are disconnected. If the power fails, the batteries automatically take over.
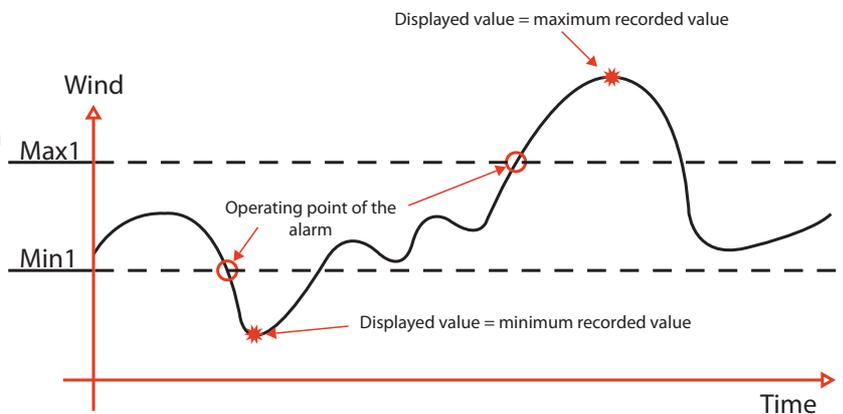
INSTALLATION

- Install the display housing with the fixing clamp, sheltered from the rain and from excessive humidity.
- Install the turbine in an open location and sufficiently far from any wall or any other obstacle to the wind, to ensure greatest accuracy for the measurements.
- Connect the cable to the housing.
- Install the cable up to the turbine.
- Position the transducer on the end of the cable close to the impeller, and preferably perpendicular to its axis of rotation.

PARAMETERS SETTING

The following parameters can be modified:

- The 1st maximum threshold (Max1) for the alarm
- The 1st minimum threshold (Min1) for the alarm
- The 2nd maximum threshold (Max2) for the alarm
- The 2nd minimum threshold (Min2) for the alarm
- The units of windspeed
- The impeller model
- The sound level of the alarm

To modify the parameters, press the + and − buttons together for 2 seconds and then release them. A new threshold can now be set for the alarm Max1. To modify the value, press briefly on the button + to increase and on the button − to reduce it. To move through the values more quickly, keep the button − or + pressed. When the desired value is reached, go to the next adjustment by pressing the button → .

Then adjust the alarm threshold Min1 in the same way. Press the button → to adjust the alarm threshold Max2, then for Min2. Press the button → and select a unit of measurement for the windspeed by using the + and − buttons. Validate by pressing the button → . Now select the impeller model **Pr1** (WindSENS3D, default impeller) or **Pr2** (WindSENS12, WindSENS20 or WindSENS60). Press the button → and set the alarm intensity **So1** (low) or **So2** (high).

To finish, press the button → . SKYWATCH WWS will then return to normal mode and display the current windspeed.

Remarks:

- If the cable is not connected, the display can show random values.
- When the unit is changed, the alarm thresholds are not converted to the new unit.
- To display the Min alarms, press the button ⊖ for 2 seconds. To display the Max alarms, press the button ⊕ for 2 seconds.
- In the adjustment modes, if no button is pressed for 60 seconds, the SKYWATCH WWS returns automatically to normal mode. The values previously set will be used, in order to prevent a permanent unintended setting of the SKYWATCH WWS.
- To acknowledge the alarms, press the button ➡ for 2 seconds.
- To disable the alarms, press the button ⊖ until there is no digit shown in the display. If the alarms display 00.0, the alarms are still active.
- The buzzer stops sounding after 60 seconds but the LEDs continue to blink to indicate that there has been an alarm.
- To exit from the adjustment mode, press the button ➡ for 2 seconds.

PROGRAM

- The alarms Max1 and Max2 will sound if the windspeed is greater than the programmed values.
- The alarms Min1 and Min2 will sound if the windspeed is less than the programmed values.

Examples:

Alarm Max1: 21 km/h	Alarm Min1: 15 km/h
Windspeed: 25 km/h	Windspeed: 11 km/h
Alarm Max1 will sound	Alarm Min1 will sound

TECHNICAL DATA

Units:	km/h - mph - knots - m/s - fps
Resolution :	1/10 of the unit
Measuring cycle:	every second
Precision:	± 3% in the horizontal plane (WindSENS3D)
Measuring range:	from 5 to 255 km/h (WindSENS3D)

FURTHER INFORMATION

The SKYWATCH WWS transducer is sensitive to magnetic fields. This enables it to detect the small magnetic pulses sent by the magnet on the axis of the impeller, process them electronically and display the results on the LCD. Because of this sensitivity, SKYWATCH WWS may display values when it is near a magnetic field (coming, for example, from an electric motor, a computer or electric lighting). There is no cause for concern; this does not at all affect the normal operation of the instrument.

WARRANTY

Starting on the date of purchase your SKYWATCH® Wind Warning System is guaranteed by JDC ELECTRONIC SA for one year in respect of all material defects in manufacture, on presentation of the dated sale document. The warranty does not cover damage caused by incorrect use. JDC ELECTRONIC SA cannot be held responsible in any case for any consequences, direct or indirect, nor for any damage that may result from the use of this instrument or from any fault or breakdown in it.