

Perimeter protection system

Wind and Temperature Sensor

for AN-307 and AN-306
Wire Fence Vibration Detectors

Quick manual



v1.5.1
February 2015

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ABOUT AN-WTS

AN-WTS is developed to **reduce false alarms** in case of:

1. **heavy wind** and
2. **significant drop of temperature** in the winter.

AN-WTS is installed as an add-on module in any AN-307 and AN-306 wire fence vibration detector unit with **firmware version 2.09** or higher. For existing systems the firmware upgrade must be done.

Firmware version can be checked by:

Holding + (plus) key on AN307 and press tamper switch.

Firmware version is displayed on 3-digit display.

The add-on module has temperature sensor and 2 inputs built-in. One is used to connect the wind sensor and another one is free for future use.

When AN-WTS is installed and properly set up it is **the precise Perimeter Protection System** with lowest level of false alarms.

WIND SENSOR

The wind sensor is very easy to install with reed contact output and 5m connection cable. It can measure wind speed up to 55 m/s, and should be installed with Ø27mm pole at least 15cm above the wire fence top.

When wind speed is up to 10 m/s there is practically no impact on sensitivity, when wind speed is between 10 and 30 m/s there is linear degradation of sensitivity, and when the wind speed is over 30 m/s there is constant maximal degradation of sensitivity.

Regarding to the actual wind speed the sensitivity of AN- detectors is reduced accordingly.

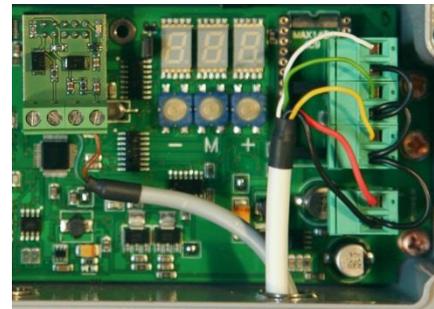
INSTALLATION

AN-WTS ad-on module should be installed into AUX terminal inside AN- detector (top middle location).

The wind sensor should be connected to the right two terminals, with green cable in the left and brown cable in the right terminal. The polarization is irrelevant.

When installing the AN-WTS

PLEASE UNPLUG THE POWER SUPPLY!



The wind speed can be checked by pressing minus (-) key in the detector. It will be shown on display above.

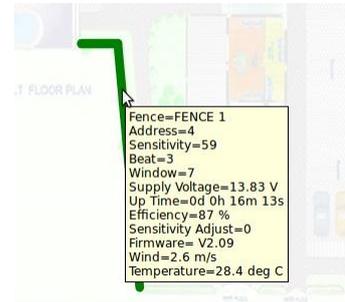
Also additional diodes are built-in for lightning protection. It is static electricity insensitive device.

CHECKING THE CURRENT WIND SPEED AND TEMPERATURE by PC

With AN-307COM you can use PC software where you can check the current wind speed and temperature with the computer by going mouse over line of the graphic display of installed wire fence protection cable (in green colour).

Among all standard data you can additionally check:

1. Sensitivity adjust
2. Firmware version
3. Wind speed in m/s
4. Temperature in deg C



Sensitivity adjust shows how much is the compensation, if null (0) none or very low sensitivity compensation for example in no wind and +20 deg C, if temperature is low it will show number 3 for example which means the system increased the sensibility, in case of heavy wind there will be number -3 for example which means the system decreased the sensitivity. If there is low temperature and high wind speed, both influences will compensate to maintain the optimum sensitivity.

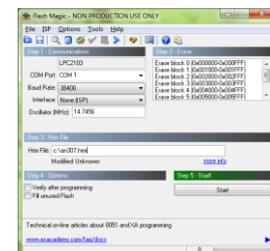
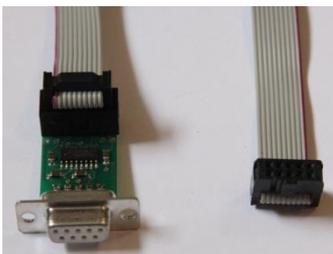
UPGRADING THE FIRMWARE

For firmware upgrade you will need:

1. PC computer with RS-232 terminal (or with standard RS-232/USB converter)
2. Programming cable
3. Firmware newest .hex file
4. FlashMagic software

And you will need to:

1. Install and run FlashMagic software
 - Select μ P to ARM7 LPC2103, baud rate to 38400, Interface to none, and oscillator frequency to 14.74 MHz
 2. Remove the jumper on the left of 3-digit display on AN- detector
 3. Connect the programming cable to AN- detector AUX terminal and PC RS-232
 4. Turn the AN- detector power supply on
 5. Press and hold plus (+) key on AN- detector.
- At the same time click (by mouse) the Start button on FlashMagic program. Flashing will start at this time.
6. Release the plus (+) key on AN- detector
 7. Wait till the end of flashing when finished, AN- detector will start running
 8. Disconnect the programming cable from AN- detector and insert jumper back (on left of 3-digit display)
 9. Check the version of firmware by pressing and holding plus (+) key and simultaneously press tamper switch. Firmware version is displayed on AN- detector built-in display. Should be V2.09 or higher.



WARRANTY AND DISCLAIMER

The product is constructed to all the enforced electro technical norms second and corresponds to the regulations of the electromagnetic compatibility (UL RS Slovenia, 64/2001). The product is adapted to the connection the source of feeding to low voltage of up to 18V, therefore it does not introduce any danger of electroshock. The product is not adapted to the assembly in rooms where the gas presence is possible exploded (plants or loads with storage cells, boilers.). The producer guarantees the sure operation of the product and it is engaged to eliminate all the defects and breakdowns fates on the product in the period of normal usage, in the repair of the product have on condition that not taken part personal non-authorized and that they have been uses pieces of reciprocation originates them. If the product will not come repaired in 45 days, it will be replaced. The product is guaranteed for a period of one year from the purchase date. The guarantee is not valid in case of damages caused from bad electrical workers or atmosphere cause (blow of directed or undirected lightning, caused static electricity from the thunderstorm).

The guarantee is valid only for the product itself. The producer does not assume the responsibility for eventual other damages because of malfunctioning or wrong operation of the product. The producer, moreover, does not assume the responsibility for whichever type of damages caused from thirds party protected with this product. For cases of this kind the plant must adequately be assured from the insurance agency.

The guarantee is valid if the date of purchase on the guarantee certificate is proven with the stamp and from the company of the authorized dealer and if it is accompanied from the fiscal receipt originates them. The period of guarantee comes extended for the repair time. Assistant and pieces of reciprocation for the product are assuring for the period of 7 years.



*Mars Commerce d.o.o.
Ul. Mirka Vadnova 19
SI 4000 Kranj
Slovenia*

*ph.: 00 386 4 280 74 04, 00 386 4 280 74 00
fax: 00 386 4 234 08 81
www.mars-commerce.com*