

Wind Alarm Instrument 4

Instruction for use 4.3242.02.000

Thies
CLIMA



1. Range of Application

The Wind Alarm Instrument 4 is designed to protect objects such as cranes, bridges, towers, masts, green houses etc. which could be seriously endangered by strong wind.

It has two separate alarm ranges operating independently from each other, for the pre- and main alarm. The measuring values determined by the wind sensor are indicated digitally. The switching points for pre- and main alarm can be set by means of two selector switches each. If the wind velocity exceeds one of the switch-on-points, then a relay contact cuts through after a pre-selected switch-on delay.

If the wind velocity is below the switch-on point, then the relay contact releases after the pre-selected switch-on delay.

The switch-on and switch-off delays can be set by means of selector switches. This is necessary in order to prevent harmless gusts of wind from causing the instrument to give alarm. Optical, acoustical or motorised alarm systems can be connected to the switching contact. When connecting such a system, the contact load allowable must be carefully observed (see technical data).

2. Technical Data

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|-------------------|--|
| Measuring range | : 0...50 m/s |
| Timer | : 1 s |
| Indicator | : 00,0...99,9 m/s Led rot, 8 mm high |
| Switch point | : 0...50 m/s adjustable |
| Contact load | : 200 W 24 VDC 100 W 250 VDC 1000 VA, max. 8 A |
| Signal contacts | : throw-over switch, potentialfree |
| Switch-on-delay | : 0...18 s adjustable in 10 digits |
| Switch-off-delay | : 0...18 min adjustable in 10 digits |
| Operating voltage | : 230 V (-10...+15%), 50 Hz, 6 VA |
| Dimensions | : 300 x 230 x 87 mm (W x H x D) |
| Weight | : 2,6 kg |

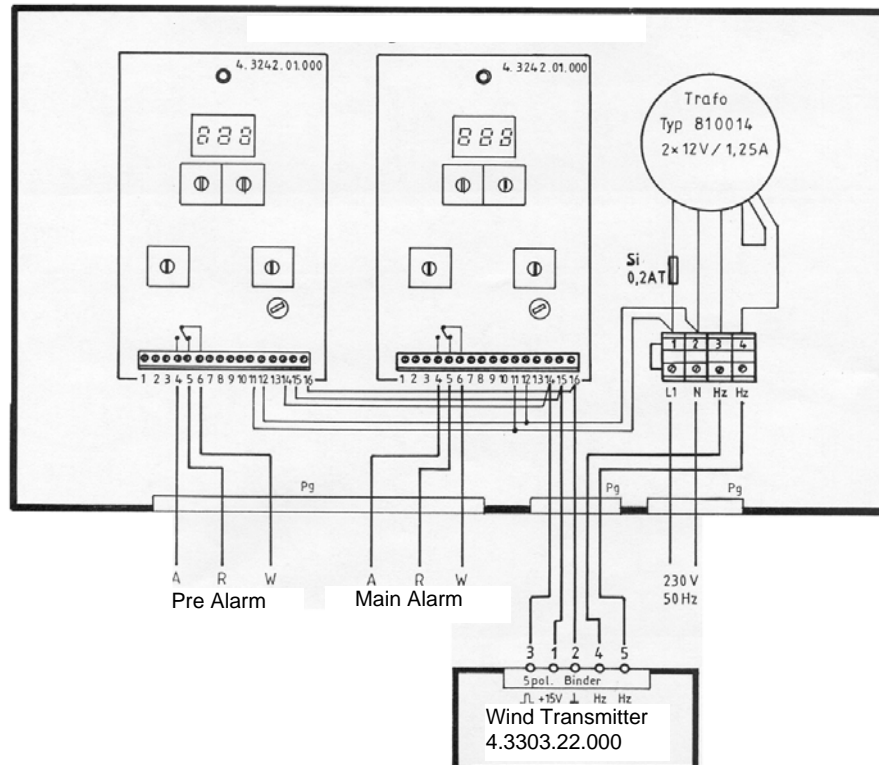
3. Preparation for use

Fasten the complete instrument with 4 screws to a plane surface. In order to do this, loosen the 4 visible screws and remove the transparent cover. Then you will see 4 Ø 4,5 mm holes on the corners of the instrument case. Fasten the instrument by inserting and screwing the proper long screws through these boreholes.

The electrical connection should be carried out by a specialist (electrician) according to the valid regulations for heavy current of the local electric supply companies.

The screw terminals for the electrical connection are positioned beneath the white front plate, which is to be screwed off. Run the lead lines through the pg-screwing and connects them according to our circuit diagram.

Circuit Diagram



4. Operating Instruction

The instrument is quite simple to operate. The setting buttons for the switch-on and switch-off delays as well as for the switching point in the ranges “pre-alarm” and “main alarm” are clearly marked.

The switching point can be directly set in m/s in the form of a 2-digit-number. The numbers which appear on the field indicate the value. The switch-on delay can be set in 10 switch positions between 0 ... 18 s using a one-digit-number. Remember to multiply the number which appears on the window by 2.

The switch-off delay can be set in 10 switch positions between 0 .. 18 min using a one-digit number. Remember that here you also have to multiply the number which appears on the window by 2.

After setting the desired values, screw the transparent cover back on.

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