

## Instruction Manual Distress Call Device

# NA 101 / NA 102 NA 2101 / NA 2102

Nr. 5310051-00/01 E

### Application

The safety rules for cooling and refrigeration plants (VBG-UVV 20) of 1 Dec 1974 prescribe the existence of a distress call device which is independent from mains power supply in cold storage rooms with temperatures below -10°C and having a floor space of more than 20 m<sup>2</sup>.

The devices **NA 101** and **102** consists of an emergency push button installed in the cold storage room and the alarm unit. The push button is equipped with an operating light which is provided by the NA's accu. So the button can be easily found in the dark.

### Function

The alarm unit contains a power supply, a built in accumulator, a buzzer and an alarm relay with potential free contacts.

A yellow operation lamp indicates operating condition by steady light. The power supply keeps the accumulator in charged condition permanently. An electronic circuit constantly controls the charging condition of the accumulator. In case of insufficient charge, a red blinker light indicates that the accu has to be checked.

When the alarm signal is released by pushing the emergency button, the control unit emits a distress call of about 100 dBA (at a distance of 1m), the operation lamp start flashing and the alarm relay is going to be de-activated. The alarm can only be cancelled by actuating the cancel key next to the push button. In large cold-storage rooms, two push buttons can be connected to one control unit.

**Caution:** Several pushbuttons can be connected to the device, but only two lamps (NA 102: 4 lamps), because there is a risk of overload.

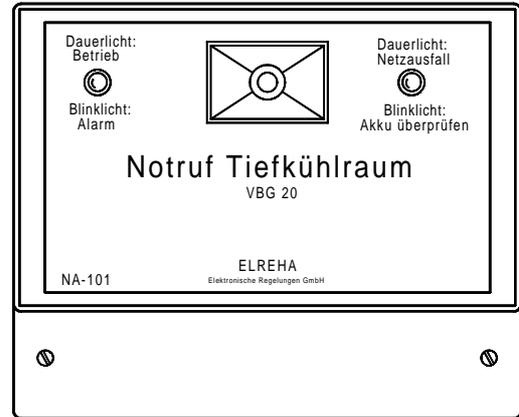
### Design

The control unit is protected by a plastic housing. Accumulator and fuses are accesible by removing of the cover. The terminals for power supply, push button and alarm relay are located in a terminal box.

### Start-up

The alarm unit is delivered typically with a built in accu. This accu must be connected before start-up.

First you have to open the cover by unfixing the two screws with the plastic head. Now you can see two cables with 6,3mm terminal connectors. Put the red cable on the plus pole of the accu and the blue one on the minus pole. If mains voltage is off or the power supply fails the LED 'power failure' lights permantly.



### Technical Data

Supply voltage..... see versions  
Power consumption..... 15 VA max.  
Accumulator..... 12V 5,6 AH, pb  
Stand-by time if mains is lost  
with fully-charged accu  
and 4 lamps (NA 102)..... 4 hours min.  
Alarm time with fully-charged  
accu and 2 lamps (NA 101)..... 8 hours min.  
Acoustic pressure buzzer..... typ. 100dBA, 1m  
Protection class..... IP 54  
Lamps for emergency buttons..... 12V 2W

### Versions

**NA 101:** 2 lamps max., **NA 102:** 4 lamps max., 230V 50-60 Hz  
**NA 2101:** 2 lamps max., **NA 2102:** 4 lamps max., 115V 60 Hz

### Scope of delivery

The distress call device NA is delivered complete with an accu and a pushbutton with an integrated lamp. If more pushbuttons are required you have to order them separately.

### Accessories / Spare parts

Emergency push button  
incl. lamp..... Order No.107-0607-0010  
Accu..... Order No. 107-2500-0003  
Lamp 12V 2W..... Order No. 107-1001-0001

### EG-Statement of Conformity

We state the following: When operated in accordance with the technical manual, the criteria have been met that are outlined in the guidelines of the council for alignment of statutory orders of the member states on electro-magnetic consistency. ( 89/336/EWG ) This declaration is valid for those products covered by the technical manual which itself is part of the declaration. Following standards were consulted for the confirmity testing with regard to electromagnetic consistency :

**IEC 1000-4-1, IEC 1000-4-2, IEC 1000-4-3\*, IEC 1000-4-4, IEC 1000-4-5, EN 55011 B, EN 50081, Teil 1 + 2; EN 50082, Teil 1 + 2**

This statement is made from the manufacturer / importer by:

**ELREHA Elektronische Regelungen GmbH**

**68766 Hockenheim**

( name / adress)

**Klaus Birkner**,.....

**Entwicklung und Leiter des EMV-Labors**

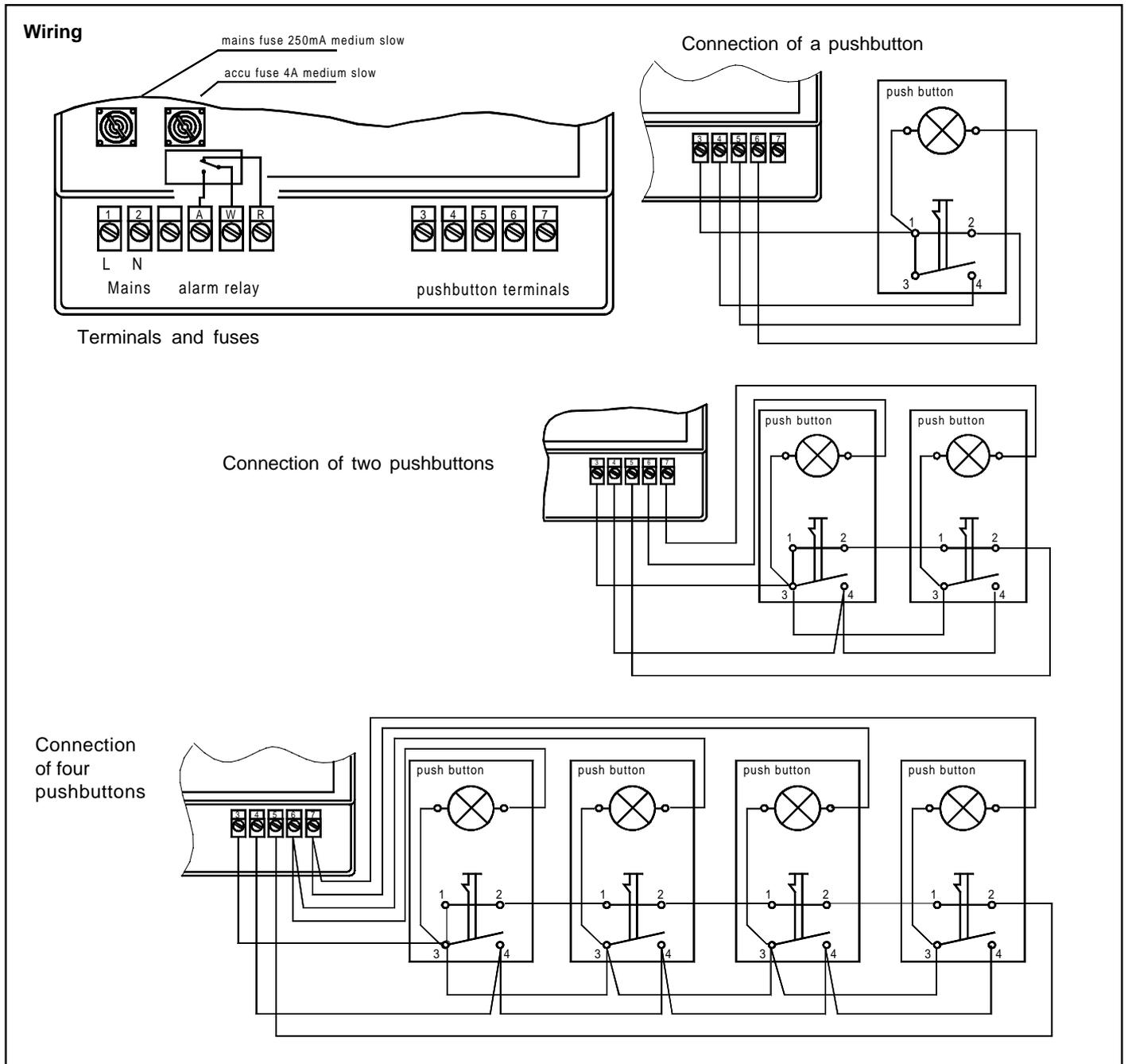
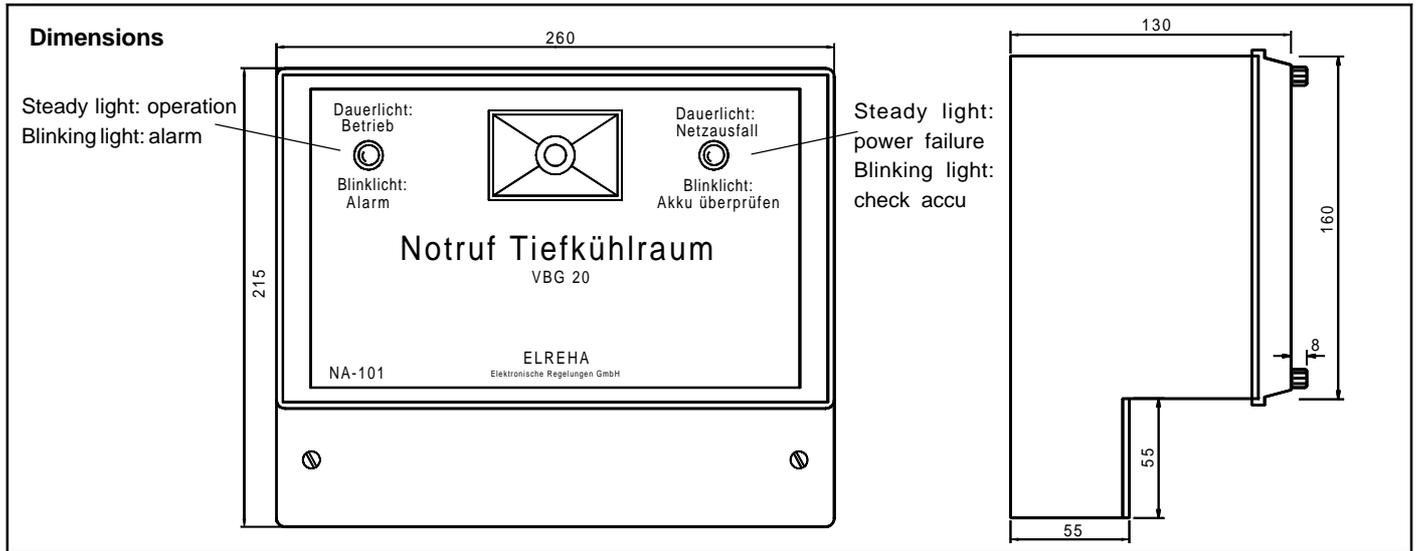
**Hockenheim**..... **11.1.96**.....

city

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\*The conformity with IEC 1000-4-3 is derived from the IEC 1000-4-2 and IEC 1000-4-4 test results. The correlation with IEC 1000-4-3 is based on test results which are located on site at the manufacturer.



This manual has been set up with care and to our best knowledge, but mistakes are still possible. Technical details can be changed without notice. If you have still problems or difficulties or questions please don't hesitate asking our technical support.

Set-Up 27.1.97	by: tsd/jr
checked 27.1.97	by: ql/kb
approved 27.1.97	by: tl/wr