1- Warnings
- The unit should be installed in a place protected from vibrations, water and corrosive gases, where the ambient temperature does not exceed the value indicated in the technical data.
- For the unit to operate correctly, use only the probes supplied by AKO.
- For the reading to be correct, the probe should be used in a place without heat influences apart from the temperature you want to measure or control.
- The probe and its cable should NEVER be installed in a conduit together with power, control or feeder cables.
- In the event of lengthening the NTC probe, always used shield cable and earth the mesh. In these cases, the maximum deviation will be 0.25 °C from -40 °C to +20 °C (Maximum 1000 m with a minimum section of 0.5 mm). We recommend using AKO-15586 cable.
- Always disconnect the power supply to do the wiring.
- The power circuit should be equipped with a switch marked as disconnecting device of the equipment of at least 2 A, 230 V, situated near the appliance.
- The power supply cable should be H05VV-F or H05V-K type. The gauge will depend on local regulations, but should in no case be less than 1 mm². The electrical installation should be carried out under pipe...
- Using the logger not observing the manufacturer’s instructions may alter the appliance safety requirements. Only probes supplied by AKO should be used for the appliance to operate correctly.

2- Technical specifications

AKO-15726
- Power supply: 90-240V~ 50/60Hz
- Maximum input power: 8.5 VA
- Alarm relay: 8 A cos 1
- Maintenance of date and time without power supply: Up to 2 days
- Internal buzzer: 70dB at 3 cm SD cards accepted: SD/SDHC (FAT / FAT32)
- Installation category: II acc/ EN 61010-1
- Pollution degree: II acc/ EN 61010-1
- Input range: S1/S2: NTC: -50 °C to 99.9 °C (-58 °F to 210 °F)
- 4-20 mA: -100 to 900 (1000 levels)

AKO-14940
- Maximum and minimum temperature indicator: ±1 ºC (0 ºC to 50 ºC)
- Resolution: 0.1
- Response time: < 20 seconds
- Maximum relative error: 2, < 0.1 %
- Working ambient temperature: -20 °C to 60 °C
- Degree of protection: IP40
- Aisblamento dble entre alimentación, circuito secundario y salida relé.
- Thermometric precision: ± 1 °C (-40 °C to +40 °C)
- 4-20 mA: ± 1 % (mA)
- Marked according to UNE-EN 12830
- S1/S2: NTC: ± 1 ºC (0 °C to 50 °C)
- Climatic environment type (A)
- Accuracy class (1)

AKO-14940
- Thermometric precision:
  - Temperature: ± ± 1 °C (0 °C to 50 °C)
  - Humidity: ± 10 % Measured value (5 % to 95 % HR)
  - Working ambient temperature: 0 ºC to 50 ºC
  - Storage ambient temperature: -20 °C to 60 °C
  - Degree of protection: IP40

3- Operation

Key function

Active event (digital input)
Temperature indication
Communication with SD card

Time indication

Alarm active

Display

Red LED

Green LED

Flashing: Correct communication with the datalogger.

Key:
- A short press downloads the data of the ongoing log onto the SD card (if it has been inserted)
- A short press downloads ALL the logged data onto the SD card (if it has been inserted). The save without changes, return to previous level or exit programming parameter appears on the programming menu.

SET key:
- A short press downloads the data of the last log onto the SD card (if it has been inserted). Silences the acoustic alarm (according to parameter P50).

In programming, confirms the selection and saves the entered value.

Key:
- Pressing for over 10 seconds accesses the data log display menu.

Flashing:
- Press A to select the log to be displayed, after 1 second the value of each input will be displayed, indicating the date and time of the log.
- Press B to select the event to be displayed (no. 1 is the most recent event), after 1 second the value of each input will be displayed, indicating the date and time of the event.

Key:
- Pressing them for over 10 seconds accesses the programming menu.
6- Parameter and message table

The Def. column indicates the factory default parameters. Unless otherwise indicated, the temperature values are expressed in °C (equivalent temperature in °F).

<table>
<thead>
<tr>
<th>Input configuration</th>
<th>Values</th>
<th>Min</th>
<th>Def</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value [mA] input 1</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
<tr>
<td>Value [mA] input 2</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
<tr>
<td>Value [mA] input 3</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
<tr>
<td>Value [mA] input 4</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alarm configuration</th>
<th>Values</th>
<th>Min</th>
<th>Def</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm input 1</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
<tr>
<td>MAX alarm input 1</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
<tr>
<td>MIN alarm input 1</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
<tr>
<td>Alarm input 2</td>
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<td>0</td>
<td>95</td>
<td>0</td>
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<tr>
<td>MAX alarm input 2</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
<tr>
<td>MIN alarm input 2</td>
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<tr>
<td>Alarm input 3</td>
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</tr>
<tr>
<td>MAX alarm input 3</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
<tr>
<td>MIN alarm input 3</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
<tr>
<td>Alarm input 4</td>
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<tr>
<td>MIN alarm input 4</td>
<td>0</td>
<td>0</td>
<td>95</td>
<td>0</td>
</tr>
</tbody>
</table>

7- Initial start-up

The date and time will be requested during the first start-up.

7.1- Programming menu (parameters)

To access the parameter programming menu, press the ▲ or ▼ keys at the same time. Refer to the list of available parameters in section 5 of this manual. After 20 seconds without touching any key, the unit returns to the previous level. If it is in level 3 the changes will not be saved.

8- Alarm log

This function saves an event whenever an alarm is activated or deactivated. To download the events log data, press the key, all the data logged up to date are downloaded onto the SD card, including the events log, contained in the "ALARMS" folder.

9- Structure of the logged data

- The logged data are stored in the internal memory of the logger organised in log blocks. The period of time stored in each block, and the maximum capacity of the internal memory, depend on the log interval (L1 parameter), as shown in table.
- The logger has a slot for SD cards, that allows transferring the stored data for display on a computer or to be saved as a backup. These data are saved in spread sheet format (.csv), organised in the following way:

```
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- The logger has a slot for SD cards, that allows transferring the stored data for display on a computer or to be saved as a backup. These data are saved in spread sheet format (.csv), organised in the following way:

```
Downloads the data of the last closed log or ongoing log (or SET keys)

Each log block is saved in a file, whose name is the day, hour and minutes of the first log it contains.

Downloads ALL the logged data (key)

Two files are generated whose name is the year, month and day of the download, in two different folders ALL and ALARMS. The first contains the file with all the data logged by the device until then and the second contains the file with the events saved until then (see section 8):

**Data of the start of the first log contained in the block.**

***File recording date.***

![Image]