Controller for refrigerated cabinets, undercounters and islands, with energy-saving strategies

1. MEASUREMENTS AND INSTALLATION

- Power supply for TC3221N7V: 230 VAC.
- Controller for normal temperature units.

- Measurements in mm (inches). To be fitted to a panel, snap-in brackets provided.

2. ELECTRICAL CONNECTION

- Door switch/multi-purpose input.
- Power supply for TC3221N7V: 230 VAC.

- Precautions for electrical connection

- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to prevent the need to touch them.

3. FIRST-TIME OPERATION

- If POF = 1, touch the ON/STAND-BY key for 4 s.

4. ADDITIONAL FUNCTIONS

4.1 Activate/maneuvre overcooling, overheating and manual energy saving

- Check that the keypad is not locked.

4.2 Unlock keypad

- Check that the keypad is not locked and that overheating is not active.

5.3 View/delete HACCP alarm information

- Check that the keypad is not locked.

5.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

6.3 View/delete compressor functioning hours and view compressor start-up number

- Check that the keypad is not locked.

6.5 Set the day, time and day of the week

- Check that the keypad is not locked and that overcooling is not active.

7.1 Restore the factory settings (default) and store customized settings as default

- Check that the factory settings are appropriate; see the section CONFIGURATION PARAMETERS. When you store customized settings, you overwrite the default.

8. SETTING PARAMETERS

- Touch the ON/STAND-BY key for 4 s.

9.1 Touch the ON/STAND-BY key for 4 s.

10.5 Touch the SET key for 4 s: the display will show the label "PA".

11.5 Touch the SET key.

TP: temperature of measurement
- 0 °C
- 1 °F

2. Power up the device as shown in the section INSTALLATION AND INSTALLATION.

3. Install following the instructions given in the section INSTALLATION AND INSTALLATION.

1. Touch the DOWN key for 4 s.

2. 2 CA1 0.0 probe type
dia: 0.5 x 1 x NTC

3. 2 P1 0 temperature
- min. 10 °C
- max. 50 °C

4. Touch the DOWN key for 0.2 s: the display will show the "SET" key.

Example of alarm information (e.g. a high temperature alarm).

- Critical value (calibrated product temperature)
- 149 °C

5. View the firmware revision

- Touch the SET key (or do not operate for 15 s).

6.3 View/delete compressor functioning hours and view compressor start-up number

- Check that the keypad is not locked.

7.3 Sample crushing function hours (thousands)

- Touch the SET key and a "r5" (when label "r5" is selected) or "s16" (when label "s16" is selected).

8.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked and that overheating is not active.

9.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

10.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

11.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

12.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

13.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

14.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

15.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

16.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

17.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

18.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

19.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

20.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

21.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

22.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

23.4 Activate manual defrost (if r5 = 0, default)

- Check that the keypad is not locked.

24.4 Activate man...
**ALARMS**

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>RESET</th>
<th>REMEDIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1</td>
<td>cabinet probe alarm</td>
<td>automatic</td>
<td>check P0</td>
</tr>
<tr>
<td>W2</td>
<td>auxiliary probe alarm</td>
<td>automatic</td>
<td>check probe integrity, check electrical connection</td>
</tr>
<tr>
<td>AE</td>
<td>door alarm</td>
<td>manual</td>
<td>switch any key</td>
</tr>
<tr>
<td>AH</td>
<td>high temperature alarm</td>
<td>automatic</td>
<td>check AA, AA and A0</td>
</tr>
<tr>
<td>AR</td>
<td>power failure alarm</td>
<td>manual</td>
<td>check any key, check electrical connection</td>
</tr>
<tr>
<td>C6</td>
<td>high condenser temperature warning</td>
<td>automatic</td>
<td>manual</td>
</tr>
<tr>
<td>CN</td>
<td>high ambient temperature warning</td>
<td>manual</td>
<td>switch the device off and on, check C7</td>
</tr>
<tr>
<td>IA</td>
<td>multi-purpose input alarm</td>
<td>automatic</td>
<td>check AA and A0</td>
</tr>
<tr>
<td>IN</td>
<td>global thermal switch alarm</td>
<td>automatic</td>
<td>check any key</td>
</tr>
<tr>
<td>MP0</td>
<td>door failure alarm</td>
<td>manual</td>
<td>check any key, check AA and A0</td>
</tr>
</tbody>
</table>

**TECHNICAL SPECIFICATIONS**

- **Purpose of the device**: Function controller
- **Construction of the control device**: Built-in electronic device
- **Category of heat and fire resistance**: 0
- **Maximum permitted length for connection cables**: 2,5 mm²
- **Maximum permissible length for connection cables**: 50 m
- **Power supply**: 100... 240 V, 50/60 Hz; 19... 24 VDC
- **Digital inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Analog inputs: 10 m (32.8 ft)
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- **Degree of protection provided by the cover (IP rating)**: IP65 (front)
- **Connection method**: Screw terminal blocks for wires up to 2.5 mm²
- **Power supply**: 100... 240 V, 50/60 Hz; 19... 24 VDC
- **Digital inputs**: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft) Analog inputs: 10 m (32.8 ft)
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