

## **Air-conditioner control & alarm**

### **GE-0801**

#### **1. General Introduction**

With the rapid growth in mobile service, the operators have accelerated the number of BTSs. The problem herewith is the number of personnel can't rise with the same rate, and the solution is building an effective remote control system .

To meet the demand of controlling air conditioners and of sending signals to OMC, ACT staff has researched and successfully designed the Alarm controller for BTS, model GE-0801.

Functions:

- High Temperature alarm
- Low Temperature alarm
- Air conditioner fault alarm (1 & 2)
- Controller failure alarm
- Invasion alarm
- Smoke alarm
- Humidity alarm
- Flood alarm
- Surge arrestor alarm
- Generator alarm ( fault - low Oil – low fuel)
- Power fault alarm

GE-0801 has been researched and tested for a long period of time at GERMAN ELECTRONICS; the equipment shows stability at harsh conditions, with various air conditioners, easy operating, flexible connection with different sensors, and especially with many extendable options.

#### **KEY FEATURES:**

- Easy to install, operate and maintain
- Menu system is easy to use
- Low power consumption.
- High Reliability & Durability.
- Keypad access built in.
- Control and Monitoring System at the same enclosure.
- Fully programmable with PC.

#### **2. TECHINICAL SPECIFICATON**

##### **Dimension**

- H x W x D                      400 x 300 x 140 (mm)

##### **Input Voltage**

- AC 380V/50Hz (L1, L2, L3, N) or 220V/50Hz (L, N)  
100 mA (Normal mode).  
300 mA (Charge mode).
- DC 24V/4Ah (built-in).  
4Ah charging.  
Operate continuously from 4 to 6 hours.

### **Output Voltage**

- Two separated outputs 220V/50Hz - 16 Amp. Max.

### **Temperature**

- Storage: -20 to 80 °C
- Operation: 0 to 70 °C

### **Connection**

- Connect to BTS through a cable "32 wire twisted pair" alarming connection interface provided.
- Quantity: 16 NC Dry contact (N.C - Normal Close).
- Connect to A/C through 16A plugs Group A.
- Connect to A/C through 16A plugs Group B In case of A/C Control fault "Direct Operation".

### **Timing characteristics**

- Cycling time: programmable (6 hour by default).
- Start delay time: 10 Sec to 15 Sec.
- Alarms receiving & sending time: < 0.5 sec.
- Door alarm triggers within 30 Sec if the Password didn't entered.
- High temperature Alarm delay time programmable (30 minutes by default).

### **Display Monitor**

- 2x16 character back-light LCD display.
- AC power LED indicators.
- 16 LED indicators for 16 Alarm.
- LCD 3 digits for humidity.

### **Other features**

- A/D Resolution: 10 bits.
- DC 24V Voltage for sensor with maximum 500mA current.
- Normally close dry contact.
- Automatically battery charging.
- Programmable Logic control.
- Menu, monitor and LED indicators: simple, clear and friendly.
- All parameters are configured by PC throw RS232 cable

Comply with all industrial standards.

### **Access control**

- Heavy duty keypad.
- Background lighting.
- Indoor outdoor Use (IP54).
- Configurable keypad

(timing the codes, remote opening/exit request, lock activating time).

**TECHINICAL SPECIFICATON**

<b><u>Dimension</u></b>	<ul style="list-style-type: none"><li>H x W x D 400 x 300 x 140 (mm)</li></ul>
<b><u>Input Voltage</u></b>	<ul style="list-style-type: none"><li>AC 380V/50Hz (L1, L2, L3, N) or 220V/50Hz (L, N) 100 mA (Normal mode). 300 mA (Charge mode).</li><li>DC 24V/4Ah (built-in). 4Ah charging. Operate continuously from 4 to 6 hours.</li></ul>
<b><u>Output Voltage</u></b>	<ul style="list-style-type: none"><li>Two separated outputs 220V/50Hz - 16 Amp. Max.</li></ul>
<b><u>Temperature</u></b>	<ul style="list-style-type: none"><li>Storage: -20 to 80 °C</li><li>Operation: 0 to 70 °C</li></ul>
<b><u>Connection</u></b>	<ul style="list-style-type: none"><li>Connect to BTS through a cable "32 wire twisted pair" alarming connection interface provided.</li><li>Quantity: 16 NC Dry contact (N.C - Normal Close).</li><li>Connect to A/C through 16A plugs Group A.</li><li>Connect to A/C through 16A plugs Group B In case of A/C Control fault "Direct Operation".</li></ul>
<b><u>Timing characteristics</u></b>	<ul style="list-style-type: none"><li>Cycling time: programmable (6 hour by default).</li><li>Start delay time: 10 Sec to 15 Sec.</li><li>Alarms receiving &amp; sending time: &lt; 0.5 sec.</li><li>Door alarm triggers within 30 Sec if the Password didn't entered.</li><li>High temperature Alarm delay time programmable (30 minutes by default).</li></ul>
<b><u>Display</u></b>	<ul style="list-style-type: none"><li>2x16 character back-light LCD display.</li><li>AC power LED indicators.</li><li>16 LED indicators for 16 Alarm.</li><li>LCD 3 digits for humidity.</li></ul>
<b><u>Access control</u></b>	<ul style="list-style-type: none"><li>Heavy duty keypad.</li><li>Background lighting.</li><li>Indoor outdoor Use (IP54).</li><li>Configurable keypad</li></ul> <p>(Timing the codes, remote opening/exit request, lock activating time).</p>
<b><u>Alarms</u></b>	A/C1 Fault A/C2 Fault High temperature Low temperature Control fault Smoke Flood Humidity Generator fail Generator Oil Generator fuel Door Power failure Surge arrestor Alarm 1 "spare" Alarm 2 "spare"