# AL-7480-1C 1 防区扩展模块使用说明

AL-7480-1C 1 防区扩展模块是具有总线通讯功能的防区输入设备，并带有通过 1 路继电器输出；通过总线与远距离的探测设备连接；可与 AL-9480B/C,AL-7480B、AL-6480C 等系统配套使用；带有地址编码设置开关。

## 1. 规格及参数

**尺　　寸：**5.3 厘米 x 2.1 厘米 x 1.4 厘米（长 x 宽 x 厚）
**工作温度：**-10℃ ∽ +50℃；0-85%湿度
**工作电压：**直流 10 ∽ 24 伏
**工作电流：**20 毫安
**报警电流：**120 毫安
**防　　区：**可接入 1 个常闭探测设备
**联网功能：**可与 AL-9480B/C、AL-6480C 等报警主机配合使用
**输　　出：**具有 1 路继电器输出，24V/1A

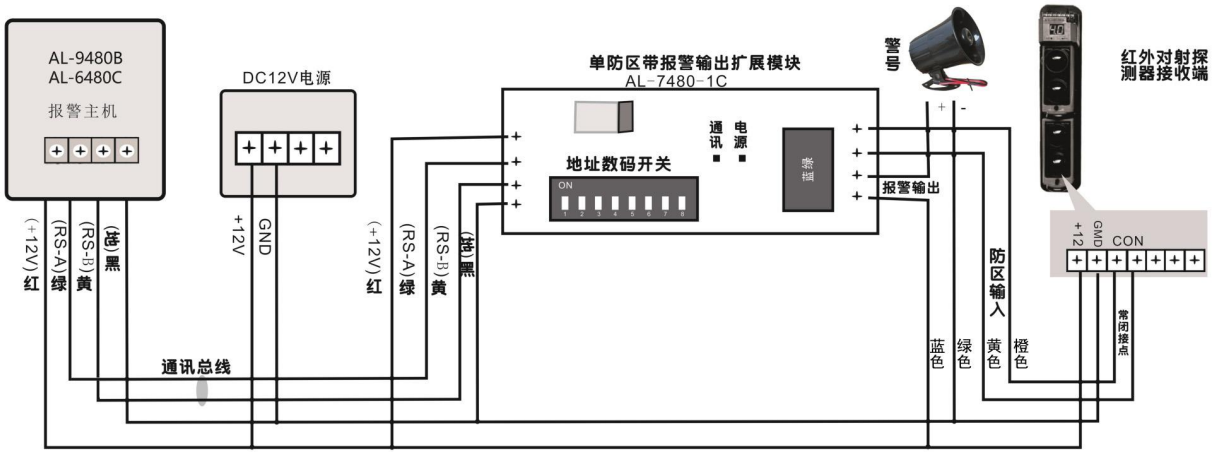
蓝、绿线：继电器联动常开输出

黄、橙线：常闭信号输入
（按探测设备常闭触点）

绿、黄线：RS485通讯线
（与报报警主机通讯端口对应）

红、黑线：直流电源输入线
（红接正极 黑接负极）

## 2. 安装说明




- 直流电源接口：红线为正极，黑线为负极；
- 继电器输出接点:蓝绿线可用于控制警号、灯光灯报警输出设备
- RS485 总线接口：绿色为通讯总线 A，黄色为通讯总线 B
- 防区输入接口：黄橙色线直接连接探测器的常闭输出接点
- 同一个系统下（例 AL-9480B 系统）的 AL-7480-1C 或其他的 RS485 终端设备地址不能重复

## 3. 指示灯说明

- 电源状态指示灯说明（红色 LED 灯）：

输入电源的电压大于最低工作电压时，电源状态指示灯常亮；一旦发现输入电源的电压低于正常工作电压时，电源状态指示灯最少快速闪烁 5 秒，如果一直没有恢复，电源状态指示灯会一直闪烁。

- 通信状态指示灯说明（绿色 LED 灯）：

1） 常亮：模块接收到正常通信；
2） 快速闪烁（1 秒钟闪烁 4 次）：模块 1 秒钟内没有接收到任何通信数据；
3） 慢速闪烁（1 秒钟闪烁 1 次）：模块接收到数据，但 5 秒钟内没有接收到任何正确的数据。

## 4. 地址编码开关

在将 AL-7480-1C 接入系统使用时,必须对其进行地址编码,编码通过编码开关进行设置，地址编码采用 2 进制编码方式。

编码开关按“12345678”顺序排列设置二进制地址。

例如：某防区扩展模块的编码为 13；对应的位二进制数为：00001101，在地址拨码开关对应的顺序为 1-8（即高位为 1，低位为 8）

1,2,3,4,7 位不动， 5,6,8 位拨到”ON”一边

## 附：地址编码表

### 地址编码表

| 地址 | ●=拨码开关闭合（ON）开关状态 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 0 | | | | | | | | |
| 1 | | | | | | | | ● |
| 2 | | | | | | | ● | |
| 3 | | | | | | | ● | ● |
| 4 | | | | | | ● | | |
| 5 | | | | | | ● | | ● |
| 6 | | | | | | ● | ● | |
| 7 | | | | | | ● | ● | ● |
| 8 | | | | | ● | | | |
| 9 | | | | | ● | | | ● |
| 10 | | | | | ● | | ● | |
| 11 | | | | | ● | | ● | ● |
| 12 | | | | | ● | ● | | |
| 13 | | | | | ● | ● | | ● |
| 14 | | | | | ● | ● | ● | |
| 15 | | | | | ● | ● | ● | ● |
| 16 | | | | ● | | | | |
| 17 | | | | ● | | | | ● |
| 18 | | | | ● | | | ● | |
| 19 | | | | ● | | | ● | ● |
| 20 | | | | ● | | ● | | |
| 21 | | | | ● | | ● | | ● |
| 22 | | | | ● | | ● | ● | |
| 23 | | | | ● | | ● | ● | ● |
| 24 | | | | ● | ● | | | |
| 25 | | | | ● | ● | | | ● |
| 26 | | | | ● | ● | | ● | |
| 27 | | | | ● | ● | | ● | ● |
| 28 | | | | ● | ● | ● | | |
| 29 | | | | ● | ● | ● | | ● |
| 30 | | | | ● | ● | ● | ● | |
| 31 | | | | ● | ● | ● | ● | ● |

| 地址 | ●=拨码开关闭合（ON）开关状态 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 32 | | | ● | | | | | |
| 33 | | | ● | | | | | ● |
| 34 | | | ● | | | | ● | |
| 35 | | | ● | | | | ● | ● |
| 36 | | | ● | | | ● | | |
| 37 | | | ● | | | ● | | ● |
| 38 | | | ● | | | ● | ● | |
| 39 | | | ● | | | ● | ● | ● |
| 40 | | | ● | | ● | | | |
| 41 | | | ● | | ● | | | ● |
| 42 | | | ● | | ● | | ● | |
| 43 | | | ● | | ● | | ● | ● |
| 44 | | | ● | | ● | ● | | |
| 45 | | | ● | | ● | ● | | ● |
| 46 | | | ● | | ● | ● | ● | |
| 47 | | | ● | | ● | ● | ● | ● |
| 48 | | | ● | ● | | | | |
| 49 | | | ● | ● | | | | ● |
| 50 | | | ● | ● | | | ● | |
| 51 | | | ● | ● | | | ● | ● |
| 52 | | | ● | ● | | ● | | |
| 53 | | | ● | ● | | ● | | ● |
| 54 | | | ● | ● | | ● | ● | |
| 55 | | | ● | ● | | ● | ● | ● |
| 56 | | | ● | ● | ● | | | |
| 57 | | | ● | ● | ● | | | ● |
| 58 | | | ● | ● | ● | | ● | |
| 59 | | | ● | ● | ● | | ● | ● |
| 60 | | | ● | ● | ● | ● | | |
| 61 | | | ● | ● | ● | ● | | ● |
| 62 | | | ● | ● | ● | ● | ● | |
| 63 | | | ● | ● | ● | ● | ● | ● |

| 地址 | ●=拨码开关闭合（ON）开关状态 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 64 | | ● | | | | | | |
| 65 | | ● | | | | | | ● |
| 66 | | ● | | | | | ● | |
| 67 | | ● | | | | | ● | ● |
| 68 | | ● | | | | ● | | |
| 69 | | ● | | | | ● | | ● |
| 70 | | ● | | | | ● | ● | |
| 71 | | ● | | | | ● | ● | ● |
| 72 | | ● | | | ● | | | |
| 73 | | ● | | | ● | | | ● |
| 74 | | ● | | | ● | | ● | |
| 75 | | ● | | | ● | | ● | ● |
| 76 | | ● | | | ● | ● | | |
| 77 | | ● | | | ● | ● | | ● |
| 78 | | ● | | | ● | ● | ● | |
| 79 | | ● | | | ● | ● | ● | ● |
| 80 | | ● | | ● | | | | |
| 81 | | ● | | ● | | | | ● |
| 82 | | ● | | ● | | | ● | |
| 83 | | ● | | ● | | | ● | ● |
| 84 | | ● | | ● | | ● | | |
| 85 | | ● | | ● | | ● | | ● |
| 86 | | ● | | ● | | ● | ● | |
| 87 | | ● | | ● | | ● | ● | ● |
| 88 | | ● | | ● | ● | | | |
| 89 | | ● | | ● | ● | | | ● |
| 90 | | ● | | ● | ● | | ● | |
| 91 | | ● | | ● | ● | | ● | ● |
| 92 | | ● | | ● | ● | ● | | |
| 93 | | ● | | ● | ● | ● | | ● |
| 94 | | ● | | ● | ● | ● | ● | |
| 95 | | ● | | ● | ● | ● | ● | ● |

| 地址 | ●=拨码开关闭合（ON）开关状态 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 96 | | ● | ● | | | | | |
| 97 | | ● | ● | | | | | ● |
| 98 | | ● | ● | | | | ● | |
| 99 | | ● | ● | | | | ● | ● |
| 100 | | ● | ● | | | ● | | |
| 101 | | ● | ● | | | ● | | ● |
| 102 | | ● | ● | | | ● | ● | |
| 103 | | ● | ● | | | ● | ● | ● |
| 104 | | ● | ● | | ● | | | |
| 105 | | ● | ● | | ● | | | ● |
| 106 | | ● | ● | | ● | | ● | |
| 107 | | ● | ● | | ● | | ● | ● |
| 108 | | ● | ● | | ● | ● | | |
| 109 | | ● | ● | | ● | ● | | ● |
| 110 | | ● | ● | | ● | ● | ● | |
| 111 | | ● | ● | | ● | ● | ● | ● |
| 112 | | ● | ● | ● | | | | |
| 113 | | ● | ● | ● | | | | ● |
| 114 | | ● | ● | ● | | | ● | |
| 115 | | ● | ● | ● | | | ● | ● |
| 116 | | ● | ● | ● | | ● | | |
| 117 | | ● | ● | ● | | ● | | ● |
| 118 | | ● | ● | ● | | ● | ● | |
| 119 | | ● | ● | ● | | ● | ● | ● |
| 120 | | ● | ● | ● | ● | | | |
| 121 | | ● | ● | ● | ● | | | ● |
| 122 | | ● | ● | ● | ● | | ● | |
| 123 | | ● | ● | ● | ● | | ● | ● |
| 124 | | ● | ● | ● | ● | ● | | |
| 125 | | ● | ● | ● | ● | ● | | ● |
| 126 | | ● | ● | ● | ● | ● | ● | |
| 127 | | ● | ● | ● | ● | ● | ● | ● |

说明：

1. 在与 AL-9480B、AL-9480C、AL-6480C-BC 等主机使用时，地址从 1 开始，也可以任意地址，只需要在报警主机设置里将对应地址的防区开启即可。

2. 在与 AL-6480C 主机使用时，模块拨码地址从 0 开始，0 号地址对应主机防区 1，防区 10 对应 9 号地址模块。

**注意：请按照本安装指南进行安装；在连接 AL-7480-1C 之前请先断开系统电源，在更改模块地址后，需将模块断电重启地址生效，或者断电拨码完后，将模块重新上电。**