



# AS-211 Single-zone Address & Output Module User Manual

*Please read it carefully before using*

AS-211 single-zone address & output module is a zone expansion module possessing the bus communication function for connecting remote alarm detector. In addition, it can output power triggering siren, flashing lights and other alarm equipment to achieve on-site deterrent directly; or output switch signal triggering camera and other equipment to achieve video linkage; can be used with AS-9000 series alarm control panel, with address code setting switch.

## 1. Specifications and parameters

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Size                  | 6cm x 1.6cm x 1.0cm (length x width x thickness)           |
| Weight                | 10 grams                                                   |
| Operating temperature | -10°C ~ +50°C; 0-85% humidity                              |
| Working voltage       | DC 10V ~ 24V                                               |
| Working current       | 10mA                                                       |
| Output                | 12V1A power supply or normally open / closed signal        |
| Zone                  | Can be connected to normally open / closed alarm detector  |
| Networking function   | Can be connected to the AS-9000 series alarm control panel |

## 2. Wiring instructions

"Red, Black" is connected to the positive and negative power supply respectively;

"Green, Yellow" is connected to the alarm control panel bus signal line green (positive), yellow (negative) respectively;

"Blue, White" is connected to the detection equipment output port of normal closed (NC) and public (COM) respectively.

### Module with output function:

"Red, Yellow": output voltage, is connected to the output equipment (such as siren) positive or negative, it can directly drive the siren ring;

"Yellow, Black": output switch volume, is connected to the linkage equipment (such as camera) input port, can be linked to video.

## 3. Communication indicator

Blinking: Module communication is normal.

## 4. Smart search

After connecting the line, log on the keypad and enter the "device management \ search bus device" menu, the alarm control panel will automatically search bus expansion module and establish a connection, and finally it will show how many devices found. When increase, decrease, replace the module, user need to let the alarm control panel search bus expansion module again.

## 5. Intelligent identification (solve missing code, recode problem)

Each module has its own unique code number. When the same code is assigned to more than two modules, the alarm control panel will automatically assign the module starting from 399 to the same code module.

## 6. Dialing code instructions

The module occupies the alarm control panel zone from 100 to 299. The zone number refers to the number displayed at the keypad when the module alarms, and the zone number = address code + 100.

● = Dial switch closed status (ON)

| Zone Number | Binary Address | Switch Status |   |   |   |   |   |   |   |
|-------------|----------------|---------------|---|---|---|---|---|---|---|
|             |                | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 100         | 0              |               |   |   |   |   |   |   |   |
| 101         | 1              | ●             |   |   |   |   |   |   |   |
| 102         | 2              |               | ● |   |   |   |   |   |   |
| 103         | 3              | ●             | ● |   |   |   |   |   |   |
| 104         | 4              |               |   | ● |   |   |   |   |   |
| 105         | 5              | ●             |   | ● |   |   |   |   |   |
| 106         | 6              |               | ● | ● |   |   |   |   |   |
| 107         | 7              | ●             | ● | ● |   |   |   |   |   |
| 108         | 8              |               |   |   | ● |   |   |   |   |
| 109         | 9              | ●             |   |   | ● |   |   |   |   |
| 110         | 10             |               | ● |   | ● |   |   |   |   |
| 111         | 11             | ●             | ● |   | ● |   |   |   |   |
| 112         | 12             |               |   | ● | ● |   |   |   |   |
| 113         | 13             | ●             |   | ● | ● |   |   |   |   |
| 114         | 14             |               | ● | ● | ● |   |   |   |   |
| 115         | 15             | ●             | ● | ● | ● |   |   |   |   |
| 116         | 16             |               |   |   |   | ● |   |   |   |
| 117         | 17             | ●             |   |   |   | ● |   |   |   |
| 118         | 18             |               | ● |   |   | ● |   |   |   |
| 119         | 19             | ●             | ● |   |   | ● |   |   |   |
| 120         | 20             |               |   | ● |   | ● |   |   |   |
| 121         | 21             | ●             |   | ● |   | ● |   |   |   |
| 122         | 22             |               | ● | ● |   | ● |   |   |   |
| 123         | 23             | ●             | ● | ● |   | ● |   |   |   |
| 124         | 24             |               |   |   | ● | ● |   |   |   |
| 125         | 25             | ●             |   |   | ● | ● |   |   |   |
| 126         | 26             |               | ● |   | ● | ● |   |   |   |
| 127         | 27             | ●             | ● |   | ● | ● |   |   |   |
| 128         | 28             |               |   | ● | ● | ● |   |   |   |
| 129         | 29             | ●             |   | ● | ● | ● |   |   |   |
| 130         | 30             |               | ● | ● | ● | ● |   |   |   |
| 131         | 31             | ●             | ● | ● | ● | ● |   |   |   |
| 132         | 32             |               |   |   |   |   | ● |   |   |
| 133         | 33             | ●             |   |   |   |   | ● |   |   |
| 134         | 34             |               | ● |   |   |   | ● |   |   |
| 135         | 35             | ●             | ● |   |   |   | ● |   |   |
| 136         | 36             |               |   | ● |   |   | ● |   |   |
| 137         | 37             | ●             |   | ● |   |   | ● |   |   |
| 138         | 38             |               | ● | ● |   |   | ● |   |   |
| 139         | 39             | ●             | ● | ● |   |   | ● |   |   |
| 140         | 40             |               |   |   | ● |   | ● |   |   |
| 141         | 41             | ●             |   |   | ● |   | ● |   |   |
| 142         | 42             |               | ● |   | ● |   | ● |   |   |
| 143         | 43             | ●             | ● |   | ● |   | ● |   |   |
| 144         | 44             |               |   | ● | ● |   | ● |   |   |
| 145         | 45             | ●             |   | ● | ● |   | ● |   |   |
| 146         | 46             |               | ● | ● | ● |   | ● |   |   |
| 147         | 47             | ●             | ● | ● | ● |   | ● |   |   |
| 148         | 48             |               |   |   |   | ● | ● |   |   |
| 149         | 49             | ●             |   |   |   | ● | ● |   |   |

| Zone Number | Binary Address | Switch Status |   |   |   |   |   |   |   |
|-------------|----------------|---------------|---|---|---|---|---|---|---|
|             |                | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 150         | 50             |               | ● |   |   | ● | ● |   |   |
| 151         | 51             | ●             | ● |   |   | ● | ● |   |   |
| 152         | 52             |               |   | ● |   | ● | ● |   |   |
| 153         | 53             | ●             |   | ● |   | ● | ● |   |   |
| 154         | 54             |               | ● | ● |   | ● | ● |   |   |
| 155         | 55             | ●             | ● | ● |   | ● | ● |   |   |
| 156         | 56             |               |   |   | ● | ● | ● |   |   |
| 157         | 57             | ●             |   |   | ● | ● | ● |   |   |
| 158         | 58             |               | ● |   | ● | ● | ● |   |   |
| 159         | 59             | ●             | ● |   | ● | ● | ● |   |   |
| 160         | 60             |               |   | ● | ● | ● | ● |   |   |
| 161         | 61             | ●             |   | ● | ● | ● | ● |   |   |
| 162         | 62             |               | ● | ● | ● | ● | ● |   |   |
| 163         | 63             | ●             | ● | ● | ● | ● | ● |   |   |
| 164         | 64             |               |   |   |   |   |   | ● |   |
| 165         | 65             | ●             |   |   |   |   |   | ● |   |
| 166         | 66             |               | ● |   |   |   |   | ● |   |
| 167         | 67             | ●             | ● |   |   |   |   | ● |   |
| 168         | 68             |               |   | ● |   |   |   | ● |   |
| 169         | 69             | ●             |   | ● |   |   |   | ● |   |
| 170         | 70             |               | ● | ● |   |   |   | ● |   |
| 171         | 71             | ●             | ● | ● |   |   |   | ● |   |
| 172         | 72             |               |   |   | ● |   |   | ● |   |
| 173         | 73             | ●             |   |   | ● |   |   | ● |   |
| 174         | 74             |               | ● |   | ● |   |   | ● |   |
| 175         | 75             | ●             | ● |   | ● |   |   | ● |   |
| 176         | 76             |               |   | ● | ● |   |   | ● |   |
| 177         | 77             | ●             |   | ● | ● |   |   | ● |   |
| 178         | 78             |               | ● | ● | ● |   |   | ● |   |
| 179         | 79             | ●             | ● | ● | ● |   |   | ● |   |
| 180         | 80             |               |   |   |   | ● |   | ● |   |
| 181         | 81             | ●             |   |   |   | ● |   | ● |   |
| 182         | 82             |               | ● |   |   | ● |   | ● |   |
| 183         | 83             | ●             | ● |   |   | ● |   | ● |   |
| 184         | 84             |               |   | ● |   | ● |   | ● |   |
| 185         | 85             | ●             |   | ● |   | ● |   | ● |   |
| 186         | 86             |               | ● | ● |   | ● |   | ● |   |
| 187         | 87             | ●             | ● | ● |   | ● |   | ● |   |
| 188         | 88             |               |   |   | ● | ● |   | ● |   |
| 189         | 89             | ●             |   |   | ● | ● |   | ● |   |
| 190         | 90             |               | ● |   | ● | ● |   | ● |   |
| 191         | 91             | ●             | ● |   | ● | ● |   | ● |   |
| 192         | 92             |               |   | ● | ● | ● |   | ● |   |
| 193         | 93             | ●             |   | ● | ● | ● |   | ● |   |
| 194         | 94             |               | ● | ● | ● | ● |   | ● |   |
| 195         | 95             | ●             | ● | ● | ● | ● |   | ● |   |
| 196         | 96             |               |   |   |   |   | ● | ● |   |
| 197         | 97             | ●             |   |   |   |   | ● | ● |   |
| 198         | 98             |               | ● |   |   |   | ● | ● |   |
| 199         | 99             | ●             | ● |   |   |   | ● | ● |   |

| Zone Number | Binary Address | Switch Status |   |   |   |   |   |   |   |
|-------------|----------------|---------------|---|---|---|---|---|---|---|
|             |                | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 200         | 100            |               |   | ● |   |   | ● | ● |   |
| 201         | 101            | ●             |   | ● |   |   | ● | ● |   |
| 202         | 102            |               | ● | ● |   |   | ● | ● |   |
| 203         | 103            | ●             | ● | ● |   |   | ● | ● |   |
| 204         | 104            |               |   |   | ● |   | ● | ● |   |
| 205         | 105            | ●             |   |   | ● |   | ● | ● |   |
| 206         | 106            |               | ● |   | ● |   | ● | ● |   |
| 207         | 107            | ●             | ● |   | ● |   | ● | ● |   |
| 208         | 108            |               |   | ● | ● |   | ● | ● |   |
| 209         | 109            | ●             |   | ● | ● |   | ● | ● |   |
| 210         | 110            |               | ● | ● | ● |   | ● | ● |   |
| 211         | 111            | ●             | ● | ● | ● |   | ● | ● |   |
| 212         | 112            |               |   |   |   | ● | ● | ● |   |
| 213         | 113            | ●             |   |   |   | ● | ● | ● |   |
| 214         | 114            |               | ● |   |   | ● | ● | ● |   |
| 215         | 115            | ●             | ● |   |   | ● | ● | ● |   |
| 216         | 116            |               |   | ● |   | ● | ● | ● |   |
| 217         | 117            | ●             |   | ● |   | ● | ● | ● |   |
| 218         | 118            |               | ● | ● |   | ● | ● | ● |   |
| 219         | 119            | ●             | ● | ● |   | ● | ● | ● |   |
| 220         | 120            |               |   |   | ● | ● | ● | ● |   |
| 221         | 121            | ●             |   |   | ● | ● | ● | ● |   |
| 222         | 122            |               | ● |   | ● | ● | ● | ● |   |
| 223         | 123            | ●             | ● |   | ● | ● | ● | ● |   |
| 224         | 124            |               |   | ● | ● | ● | ● | ● |   |
| 225         | 125            | ●             |   | ● | ● | ● | ● | ● |   |
| 226         | 126            |               | ● | ● | ● | ● | ● | ● |   |
| 227         | 127            | ●             | ● | ● | ● | ● | ● | ● |   |
| 228         | 128            |               |   |   |   |   |   | ● |   |
| 229         | 129            | ●             |   |   |   |   |   | ● |   |
| 230         | 130            |               | ● |   |   |   |   | ● |   |
| 231         | 131            | ●             | ● |   |   |   |   | ● |   |
| 232         | 132            |               |   | ● |   |   |   | ● |   |
| 233         | 133            | ●             |   | ● |   |   |   | ● |   |
| 234         | 134            |               | ● | ● |   |   |   | ● |   |
| 235         | 135            | ●             | ● | ● |   |   |   | ● |   |
| 236         | 136            |               |   |   | ● |   |   | ● |   |
| 237         | 137            | ●             |   |   | ● |   |   | ● |   |
| 238         | 138            |               | ● |   | ● |   |   | ● |   |
| 239         | 139            | ●             | ● |   | ● |   |   | ● |   |
| 240         | 140            |               |   | ● | ● |   |   | ● |   |
| 241         | 141            | ●             |   | ● | ● |   |   | ● |   |
| 242         | 142            |               | ● | ● | ● |   |   | ● |   |
| 243         | 143            | ●             | ● | ● | ● |   |   | ● |   |
| 244         | 144            |               |   |   |   | ● |   | ● |   |
| 245         | 145            | ●             |   |   |   | ● |   | ● |   |
| 246         | 146            |               | ● |   |   | ● |   | ● |   |
| 247         | 147            | ●             | ● |   |   | ● |   | ● |   |
| 248         | 148            |               |   | ● |   | ● |   | ● |   |
| 249         | 149            | ●             |   | ● |   | ● |   | ● |   |

| Zone Number | Binary Address | Switch Status |   |   |   |   |   |   |   |
|-------------|----------------|---------------|---|---|---|---|---|---|---|
|             |                | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 250         | 150            |               | ● | ● |   | ● |   |   | ● |
| 251         | 151            | ●             | ● | ● |   | ● |   |   | ● |
| 252         | 152            |               |   |   | ● | ● |   |   | ● |
| 253         | 153            | ●             |   |   | ● | ● |   |   | ● |
| 254         | 154            |               | ● |   | ● | ● |   |   | ● |
| 255         | 155            | ●             | ● |   | ● | ● |   |   | ● |
| 256         | 156            |               |   | ● | ● | ● |   |   | ● |
| 257         | 157            | ●             |   | ● | ● | ● |   |   | ● |
| 258         | 158            |               | ● | ● | ● | ● |   |   | ● |
| 259         | 159            | ●             | ● | ● | ● | ● |   |   | ● |
| 260         | 160            |               |   |   |   |   | ● |   | ● |
| 261         | 161            | ●             |   |   |   |   | ● |   | ● |
| 262         | 162            |               | ● |   |   |   | ● |   | ● |
| 263         | 163            | ●             | ● |   |   |   | ● |   | ● |
| 264         | 164            |               |   | ● |   |   | ● |   | ● |
| 265         | 165            | ●             |   | ● |   |   | ● |   | ● |
| 266         | 166            |               | ● | ● |   |   | ● |   | ● |
| 267         | 167            | ●             | ● | ● |   |   | ● |   | ● |
| 268         | 168            |               |   |   | ● |   | ● |   | ● |
| 269         | 169            | ●             |   |   | ● |   | ● |   | ● |
| 270         | 170            |               | ● |   | ● |   | ● |   | ● |
| 271         | 171            | ●             | ● |   | ● |   | ● |   | ● |
| 272         | 172            |               |   | ● | ● |   | ● |   | ● |
| 273         | 173            | ●             |   | ● | ● |   | ● |   | ● |
| 274         | 174            |               | ● | ● | ● |   | ● |   | ● |
| 275         | 175            | ●             | ● | ● | ● |   | ● |   | ● |
| 276         | 176            |               |   |   |   | ● | ● |   | ● |
| 277         | 177            | ●             |   |   |   | ● | ● |   | ● |
| 278         | 178            |               | ● |   |   | ● | ● |   | ● |
| 279         | 179            | ●             | ● |   |   | ● | ● |   | ● |
| 280         | 180            |               |   | ● |   | ● | ● |   | ● |
| 281         | 181            | ●             |   | ● |   | ● | ● |   | ● |
| 282         | 182            |               | ● | ● |   | ● | ● |   | ● |
| 283         | 183            | ●             | ● | ● |   | ● | ● |   | ● |
| 284         | 184            |               |   |   | ● | ● | ● |   | ● |
| 285         | 185            | ●             |   |   | ● | ● | ● |   | ● |
| 286         | 186            |               | ● |   | ● | ● | ● |   | ● |
| 287         | 187            | ●             | ● |   | ● | ● | ● |   | ● |
| 288         | 188            |               |   | ● | ● | ● | ● |   | ● |
| 289         | 189            | ●             |   | ● | ● | ● | ● |   | ● |