# SNM800 Sounder Notification Module – Installation Instructions

![SNM800 Sounder Notification Module](image)

**Fig. 1: SNM800 Sounder Notification Module**

## Technical specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type Identification Value</td>
<td>177</td>
</tr>
<tr>
<td>System Compatibility:</td>
<td>Use only with MX Fire Alarm Controllers</td>
</tr>
<tr>
<td>Environment:</td>
<td>Indoor Application only</td>
</tr>
<tr>
<td>Operating Temperature:</td>
<td>-25 °C to +70 °C</td>
</tr>
<tr>
<td>Storage Temperature:</td>
<td>-40 °C to +80 °C</td>
</tr>
<tr>
<td>Operating Humidity:</td>
<td>Up to 95 % non-condensing</td>
</tr>
<tr>
<td>Dimensions (HWD)</td>
<td>87 x 114 x 48 mm</td>
</tr>
<tr>
<td>Mounting Requirements</td>
<td>MK backbox surface mount or an ANC-8 ancillary housing</td>
</tr>
<tr>
<td>Battery Requirements Standby current:</td>
<td>0.75 mA</td>
</tr>
<tr>
<td></td>
<td>Alarm current: 4.5 mA</td>
</tr>
</tbody>
</table>

### Addressable Device Conditions

- Normal
- Short Circuit wiring fault
- Open Circuit wiring fault
- Input Power fault
- Device Type invalid
- Device No Response

### Wire Size

- Min: 1.5 mm²
- Max: 2.5 mm²

### Notification Circuit

- Max. Circuit Voltage Drop: 3.0 V dc
- Notification Circuit EOL: 27 k ohms, 0.5 watt
- Output Current: 2A max @ 24V dc

*Table 1: Technical Specifications (cont.)*

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Fixing instructions  Doc. version 4.0  1/8
**Electromagnetic Compatibility**

The SNM800 complies with the following:
- Product family standard EN50130-4 in respect of:
  - Conducted Disturbances,
  - Radiated Immunity,
  - Electrostatic Discharge,
  - Fast Transients
  - Slow High Energy,
- EN61000-6-3 for emissions.

**Introduction**

The SNM800 Sounder Notification Module is designed to provide an output, in response to a command signalled from a controller, to activate a number of polarised and suppressed sounders. The sounders are powered from an independent power supply and the module is capable of passing up to a maximum of 2A (eg, 40 x 24V dc 50mA company sounders or a mixture of different current-rated sounders not exceeding a maximum current of 2A).

**Features**

The PSM800 Power Supply Module (or equivalent) supplies the source power for SNM800 dc applications:
- SNM800 can switch up to 2A
- SNM800 supervises power supply
- SNM800 monitors the wiring to signalling devices and will not switch on (even if commanded to do so), if a short circuit occurs. This prevents a single short circuit condition from disabling more than the output that contains the short-circuit.

The SNM800 may be used in conjunction with a RIM800 in an Extinguishing Configuration. An LED reports SNM800 status to the user. The LED lights when the SNM800 has been commanded to activate.

**Wiring notes**

The following notes apply:
- There are no user required settings (such as switches or headers) on the SNM800.
- All wiring must conform to the current edition of IEE Wiring Regulations and BS5839 part 1.
- All conductors to be free of earths.
- Fit the PCB to the M520 cover/ANC-8 ancillary housing.
- All Notification appliances must be polarised and suppressed.
- Verify the correct polarity of wiring before connecting the SNM800 to the addressable loop circuit.
- For SNM800 typical wiring configurations (see Figures 3, 4, 5).

![Fig. 2: SNM800 Sounder Notification Module Facia Plate](image-url)
Fig. 3: Simplified Wiring Diagram showing Sounders wired in a Spur Configuration
1 – External power supply
2 – To next device
3 – Programming port
4 – MX controller
Fig. 4: Simplified Wiring Diagram showing Sounders wired in a Loop Configuration
Note: The EOL must be physically mounted to terminals R+ and R-
1 – External power supply
2 – To next device
3 – Programming port
4 – MX controller
Mounting

Installation of modules into an ANC-8 ancillary housing

The housing can accommodate up to eight ancillary PCBs. A stacking kit is available if a second layer of PCBs is required.

How to install MX800 modules into an ANC-8 ancillary housing

1. Assemble the required ancillary PCBs onto the chassis plate as required, fixing as shown in Fig. 7.
2. Assemble the chassis plate into the housing and secure using fixing screw, see Fig. 6.
3. Connect the chassis plate earth lead to the housing, see Fig. 6.
Fig. 6: ANC-8 - Chassis Plate
1 – Chassis plate fixing screw
2 – Chassis plate
3 – Cover earth
4 – Chassis plate earth
5 – Transit screw
6 – Typical position of 800 modules (4 per row)

Fig. 7: ANC-8 - PCB Fixing Detail
1 – Housing
2 – Plate
3 – Nylon spacer
4 – Ancillary PCB
5 – Plain washer
6 – Nylock nut
Installation to M520 double gang cover

1. Assemble the SNM800 to M520 Double Gang cover, using the four screws and washers provided,
2. Fit cover onto MK backbox.
3. If an IP22 rating is required additional sealing must be applied. Apply Loctite S1595 silicone sealant around the LED, as shown in Fig. 9. Note how the sealant fills the small gap between the LED and its hole in the cover. Avoid smearing sealant over the LED surface. Using a fine nozzle is recommended.

Address settings
The SNM800 has a default factory set address of 255, this must be set to the loop address of the device using the 801AP MX Service Tool. The SNM800 may be programmed with the address prior to being installed by using the internal programming port (see Fig. 7) or after being installed by using the programming port on the front cover (see Fig. 2 on page 2).

Note
Once the address has been programmed, take note of the device location and address number, to include on site drawings.

Cabling
Cables are to be selected in accordance with Publication 17A-02-D and the requirements of the current issue of BS5839. A maximum of one 1.5 mm² or one 2.5 mm² cable may be connected at any one terminal.

Associated equipment
The module fits onto a standard dual-gang MK box, or an ANC-8 ancillary housing. The module may drive a SNB800 Sounder Notification Booster Module.

Ordering information

<table>
<thead>
<tr>
<th>Name</th>
<th>Stock code number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNM800 Sounder Notification Module</td>
<td>577.800.005</td>
</tr>
<tr>
<td>SNM800 Sounder Notification Module c/w Cover</td>
<td>577.800.035</td>
</tr>
<tr>
<td>M520 Cover</td>
<td>517.035.007</td>
</tr>
<tr>
<td>ANC-8 Ancillary Housing assy</td>
<td>557.180.096.A.T.Y</td>
</tr>
</tbody>
</table>

Table 2: Ordering information
## CPR Information

![CE Mark](image)

Tyco Fire & Security GmbH
Victor von Bruns-Strasse 21
8212 Neuhausen am Rheinfall
Switzerland
15
DoP-2015-4033

### EN 54-18: 2005
Input-output device for use in fire detection and alarm systems
SNM800

### Essential Characteristics
**EN54-18: 2005**
- Response delay (response time): Pass
- Performance under fire conditions: Pass
- Operational reliability: Pass
- Durability of operational reliability temperature resistance: Pass
- Durability of operational reliability; vibration resistance: Pass
- Durability of operational reliability; humidity resistance: Pass
- Durability of operational reliability; corrosion resistance: Pass
- Durability of operational reliability; electrical stability: Pass

### Installation Instructions
120.415.526_17A-03-SNM
Service Instructions 17A-04-S