

## AM-8200 SYSTEM

### DESCRIPTION

**AM-8200** is a Multi-processor Fire Detection system suitable for system configurations of a wide range of installations.

The system offers fire detection solutions integrated for many applications, like hotels, offices, hospitals, industrial environments and production facilities.

AM-8200 represents not only a panel but an advanced very powerful fire detection system that uses the CanBus technology. This standard, originally designed for operation in industrial environments, makes the system highly resistant to external factors as electrical disturbances and other sources of false alarms.

The system is certified in compliance with the standards EN 54-2, EN 54-4.

The AM-8200 use the Advanced communication protocol towards the devices in the field, but each line can also be configured as "CLIP compatible" for the complete backward compatibility with older devices.

Through the Advanced protocol, the addressable devices are now able to operate smarter like, for example: change the type of sound and volume on the sounders in relation to different events, activate Sounder and Flash separately on the same physical device, receive e display on the panel screen the level the battery of the wireless sensors.

**User Interface:** The ergonomic user interface of the color LCD Touch is designed so that every operation is easy and intuitive. The panel has a 7" TFT touch display (800 x 480 with backlight) and 256 colors for entering the control panel programming data and interacting with the operators.

All functions are available with access to the 4 password levels as defined by the EN 54-2 standards. Through dedicated buttons on the touch screen user have easy access to the following functions: Evacuation, Reset Delay, Silence Buzzer, Silence / Reset Sounder, Reset events.

**Zones:** They serve as a basic indication to identify the position of an event, as indicated in EN 54-2.

In the stand-alone configuration or in the 16-line network configuration, the control panel has 500 zones. Up to 32 points can be associated to each zone. With the addition of the **AM-8200-BB** extension box, can be expanded to 6 lines and, with the addition of an additional **LIB-8200** board, up to 8.



**Detection lines:** based on the proven Notifier Loop technology to connect devices in the field, adds the new advanced protocol. This digital protocol transfers much more information at higher speed, yet maintains the simplicity of being able to power and communicate with devices via a pair of wires.

In its basic configuration, the control panel has 2 lines for addressing up to 159 detectors and 159 modules each. With a further **LIB-8200** board, the panel can be expanded to up to 4 lines in the same box.

### Addressing devices on the detection line:

Set via the rotary-switches on the addressed devices. On the lines programmed in CLIP mode it is possible to assign addresses from 1 ÷ 99. On lines programmed in ADVANCED mode, addresses range from 1 to 159. In an ADVANCED line the multiple modules (for example M721 with 2-inputs and 1 output) occupy only 1 address of the 159 available and some SUB-ADDRESS, one for each module that makes up the device. The same module in a CLIP line occupies 3 consecutive addresses of the 99 available for the modules. The maximum number of "sub-addresses" manageable for each LIB-8200 (2 lines) is 700, freely distributable on the two LIB lines of the card.

### Remote displays:

With the use of an optional **AM-82-2S2C** board, up to 32 **LCD-8200** model remote displays with Color Touch screen can be connected to each control panel via an opto-isolated two-wire RS.485 serial line.

Up to 16 of these terminals can be configured for partial display of events of up to 64 zones (typically they are used as floor or sector displays in Hotels and Hospitals) while 16 repeat all events of the entire system. On the second serial port of this board is possible to connect a system serial printer with RS.232 interface.

## MAIN FUNCTIONALITIES

- 4 access levels in accordance with EN 54 standards.
- Programmable text for points and zones: 32 characters.
- 500 zones and 400 logical groups in stand alone or network configuration with 16 total loops
- Control-by-event CBE equations for activations with logical operators (AND, OR, DEL, etc.).
- Historical archive with 2000 events in non-volatile memory.
- Clock in real time.
- Auto-programming lines with automatic recognition of the model of the devices.
- Decision algorithms for the alarm, pre-alarm and faults.
- Automatic day / night sensitivity change.
- Indication of the need to clean the Smoke sensors.
- Programmable alarm threshold for all sensors.
- Walk-Test function by zone.

**NETWORK between Panels:** Via the additional optional **AM82-2S2C** card in each control panel, the system add two high-speed opto-isolated CanBus lines for connecting a fail-safe closed-loop network with up to 16 lines distributed over the various control units in the 'ring, which are able to share events as if the whole system were a single panel with its components distributed throughout the building.

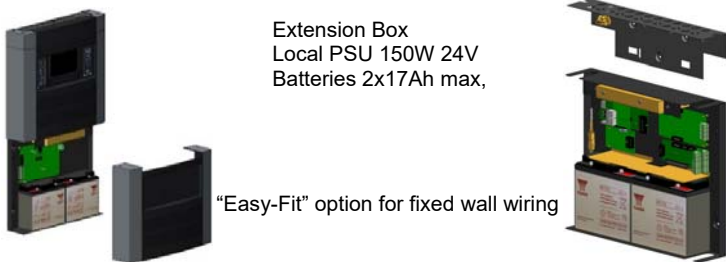
Any action taken against an event detected in any position can be performed anywhere on the network regardless of the panel that detected the alarm.

Among the expansion cards is also a special CanBus signal amplification board, model **AM82-BST-C**, which allows to double the standard distance of 500 meters between panels.

From one of the panels in the ring network, an optional **SIB-8200** model card guarantees secure communication via Ethernet with the **WIN-FIRE** supervision software.

By connecting computers to a fail-safe Ethernet network using our ring Ethernet switches, you can achieve an additional two levels of security.

**PK-8200:** Configuration software tool with an "office-like" interface and great simplicity of use, which can be downloaded free of charge from the Notifier Italia website. Configuration of the entire network of panels from a single position. Transfer of programming with a USB key without the need for a cable connection with the control panel.



## TECHNICAL FEATURES










- Mains input: 100 ÷ 240Vac +/- 15%, 1,9A 50 ÷ 60Hz
- Voltage: 27.6Vdc - 4A total.
- Battery charger: 27.5 Vdc - 1A (with temperature compensation). Recommended batteries: 2 x 17-18 Ah
- User Output Voltage: 28Vdc (+ 3% / -18%) 3.5A, to supply external loads such as: sirens, electromagnets, etc.
- Current available for each detection Line: 750 mA

## ENVIRONMENTAL CHARACTERISTICS

- Operating temperature: -5 °C to +40 °C
- Storage temperature: -10 °C to +50 °C
- Degree of protection: IP30

## MECHANICAL CHARACTERISTICS

- Dimensions: 369.8mm x 445.7mm x 111mm
- Weight: 7 Kg (AM-8200)
- Weight: 5 kg (AM-8200-BB)

Code		Description
<b>AM-8200</b>		2 loop Advanced / CLIP control panel, 150W 24V power supply, 17Ah max batteries, 7 "color Touch display
<b>AM-8200-BB</b>		Extension box 2 loop Advanced / CLIP, Power supply 150W 24V, 2 batteries 17Ah max
<b>AM-82-TOP</b>		"Easy-Fit" frame with preformed cable passage holes
<b>LIB-8200</b>		Expansion card 2 ADV loop / CLIP
<b>AM-82-2S2C</b>		Card with 2 serial (printer + LCD-8200 remote terminals) and 2 CanBus for network between control units
<b>LCD-8200</b>		Remote terminal with programmable Touch 7 "display
<b>AM82-BST-C</b>		"Booster" card for CanBus network
<b>SIB-8200</b>		Communication card with: 1 Ethernet 10/100 port for WIN-FIRE software and 2 serial with ESPA protocol 4.4.4 for DAL-COM-21 (Communicator EN 54-21) and MODBUS "read-only".
<b>PK-8200</b>		System configuration software tool for Windows 64 bit downloadable from WEB.

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