

DA381, DA381-IS, DA382, IA382, DA382-IS, DA383, DA383-IS ADDRESSABLE DETECTORS



XA38x Addressable detector series are specially designed to detect smoke, heat or both caused by fire in the environment and transmit the detection information to Redban control panels.

The detector features a plug-in type photoelectric smoke sensor and thermistor with addressable analog communications. The sensor transmits an analog representation of smoke density and heat rise over a communication line to a control panel. Inside MCU's EEPROM, the sensor's address is stored and can be set by a portable address setting device called RB1201 Device Programmer. The detector can be assigned an address ID ranging from 1 to 200.

The DA383-IS Model is similar to the DA383 detector, but with the addition of an isolator built into the DA383. The built-in isolator enables part of the communications loop to continue operating in the event of a short circuit. The module will automatically restore the entire communications loop to the normal condition when the short circuit is removed.

The smoke perception part or the heat perception of the detector can be disabled either by the device programmer or through program settings from the panel.

DA381 (Smoke Detector), DA382 (Heat Detector), and DA383 (Combined Detector) models are available, with built-in isolators implemented in DA381-IS, DA382-IS, and DA383-IS variants.

The heat detector side (DA382 & IA382) is Class A1 (EN54-5) heat detector.

Upon activation, The DA383 illuminates two red indicator through light guides, situated on the detector head.

Features

- Robust and aesthetic PC/ABS case
- Microprocessor based design
- Double sided light path indicator
- Self calibration
- Eliminate false alarms
- Built-in Isolator
- Led indicator output
- Class A1 Heat Perception
- Programmable by RB1201 address programmer
- Address and data stored in nonvolatile memory
- EN54-5, EN54-7 & EN54-17 Certified



EN54-5:2017 + EN54-7:2018 + EN54-17:2005
CPR No: 1922-CPR-2166



TECHNICAL SPECIFICATIONS

	DA381/DA381-IS	IA382/DA382/DA382-IS	DA383/DA383-IS
DESCRIPTION	Optical Smoke Detector	Heat Detector	Combined Detector
STANDARDS	EN54-7/17	EN54-5/17	EN54-5/7/17
LOOP OPERATING VOLTAGE	16 - 30 Vdc	16 - 30 Vdc	16 - 30 Vdc
LOOP OPERATING CURRENT	<200µA @ 24 Vdc	<200µA @ 24 Vdc	<200µA @ 24 Vdc
MAXIMUM ALARM CURRENT	<4 mA @ 24 VDC (LED on)	<4 mA @ 24 VDC (LED on)	<4 mA @ 24 VDC (LED on)
ADDRESSING MODE	Manual Addressing	Manual Addressing	Manual Addressing

SPECIFICATIONS

SYSTEM WIRING	1,5 mm ² 2 core loop	1,5 mm ² 2 core loop	1,5 mm ² 2 core loop
AREA COVERAGE	50 m ²	50 m ²	50 m ²
MOUNTING POSITION	Ceiling Mount	Ceiling Mount	Ceiling Mount
MOUNTING BASES	DT100, DT200, ST380	DT100, DT200, ST380	DT100, DT200, ST380
HEAT CLASS	N/A	Class A1	Class A1
INDICATION	360° visibly led indicator	360° visibly led indicator	360° visibly led indicator
SENSITIVITY	0,23 dB/m	N/A	0,23 dB/m

ISOLATOR SPECIFICATIONS

ISOLATOR TYPE/SWITCH CURRENT	SSCS (A.3) / 230-400mA	SSCS (A.3) / 230-400mA	SSCS (A.3) / 230-400mA
ISOLATOR RECONNECT/LEAKAGE CURRENT	3-13mA / max. 18mA	3-13mA / max. 18mA	3-13mA / max. 18mA
STANDBY CURRENT/SERIAL RESISTANCE	max. 150uA / max. 1 ohm	max. 150uA / max. 1 ohm	max. 150uA / max. 1 ohm

ENVIRONMENTAL SPECIFICATIONS

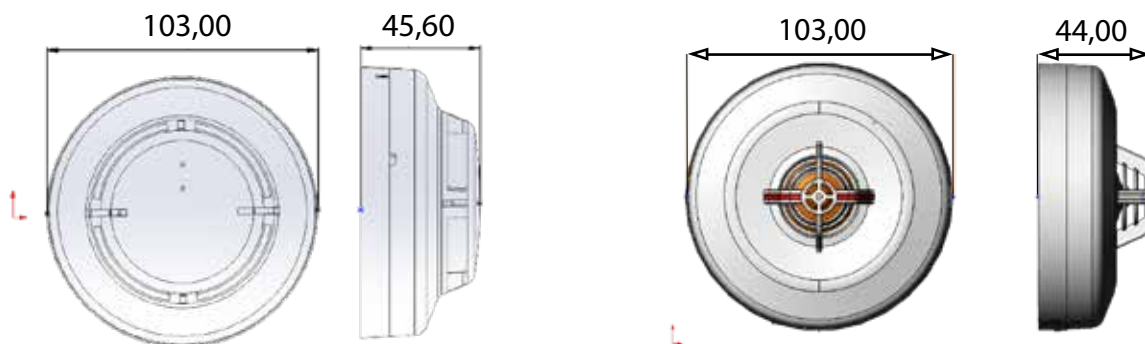
HUMIDITY	10% - 93% Relative Humidity	10% - 93% Relative Humidity	10% - 93% Relative Humidity
	Non-condensing	Non-condensing	Non-condensing
OPERATING TEMPERATURE	-10°C - 50°C	-10°C - 50°C	-10°C - 50°C
ENVIRONMENTAL CATEGORY	IP21	IP21	IP21

COMPATIBILITY

AP104 ADDRESSABLE FIRE PANEL	Yes	Yes	Yes
AP204 ADDRESSABLE FIRE PANEL	No	No	No
AP304 ADDRESSABLE FIRE PANEL	Yes	Yes	Yes

PHYSICAL SPECIFICATIONS

CASE MATERIAL	PC/ABS Case	PC/ABS Case	PC/ABS Case
DIMENSIONS (H x D)	45,6 x 103 mm	44 / 45,6 x 103 mm	45,6 x 103 mm



GS221 ADDRESSABLE GAS DETECTOR



GS221 addressable gas detector is designed to detect gas leaks, to generate an alarm and to transmit this information to the control panel. GS221 addressable gas detector can work with all Redban control panels. It can detect all kinds of flammable and combustible gases. The device detects gases such as Natural gas (methane), bottled gas (propane), LPG (Liquefied petroleum gas), CNG (natural gas).

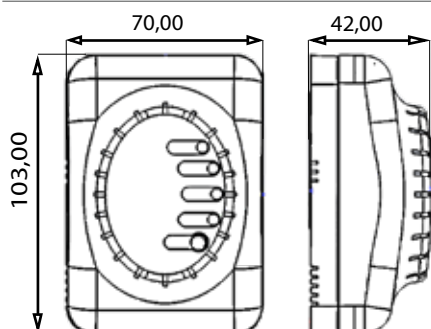
When a gas leakage is detected, analog data is transmitted to the control panel over a communication line. Thanks to the relay output on it, it can be operated independent of the panel with only 24V supply. When GS221 detects while operating independent of the panel, the relay output active on it. In this way, a desired device (such as a gas valve) can be controlled. GS221 Gas detector is addressed by RB1201 Address programmer and this address information is stored in its permanent memory.

TECHNICAL SPECIFICATIONS

LOOP OPERATING VOLTAGE	16 - 30 Vdc
LOOP OPERATING CURRENT	<150µA @ 24 VDC (every 8 seconds with LED blink enabled)
MAXIMUM ALARM CURRENT	<7 mA @ 24 VDC (LED on)

ENVIRONMENTAL SPECIFICATIONS

HUMIDITY	10% - 93% Relative Humidity, Non-condensing
OPERATING TEMPERATURE	-10°C - 50°C
SENSOR LIFE	5 Years
COVERAGE AREA	max. 50 m ³



Features

- Robust and aesthetic PC/ABS case
- Microprocessor based design
- Light path indicator
- Test button
- NO / NC Relay output
- Programmable with RB1201 address programmer
- Address and data stored in nonvolatile memory
- Ability to work standalone
- EN 50194-1 standard



EN 50194-1:2009 + EN 60335-1:2020
EN 50270:2015 + EN 61000-6-3:2021
CoC No: 353

PHYSICAL SPECIFICATIONS

CASE MATERIAL	PC/ABS Case
DIMENSIONS (H x W x D)	103 x 70 x 42 mm
WEIGHT	150 grams

DETECTOR BASES

DT100 DETECTOR BASE



DT100 is used to assemble detectors and to connect cables. It works compatible with addressable Redban XX38x series detectors, allowing you to use different detector types in the same system. It can be mounted on all surfaces.

DT200 DETECTOR BASE FOR SURFACE MOUNTING



DT200 is used to assemble detectors and to connect cables. It works compatible with both addressable Redban XX38x detectors, allowing you to use different detector types in the same system. It is suitable for use in areas with surface-mounted cabling.

ST380 SOUNDER BASE



ST380 Sounder Base is an important component of fire alarm systems. It adapts to various warning scenarios with its addressable and programmable features. It can effectively transmit emergency alerts with high volume and multi-device support. Additionally, its design requires no external power supply, making installation simple. Up to 40 pieces of ST380 can be operated in one loop.

SUPPORTED DEVICES

DA381 Addressable Optical Smoke Detector

DA382 Addressable Heat Detector

IA382 Addressable Heat Detector

DA383 Addressable Combined Detector

DA381-IS Addressable Optical Smoke Detector with Built-in Isolator

DA382-IS Addressable Heat Detector with Built-in Isolator

DA383-IS Addressable Combined Detector with Built-in Isolator

IO111-I, IO111-I-IS, IO111-O, IO111-O-IS, IO111, IO111-IS ADDRESSABLE INPUT/OUTPUT MODULE



IO111/IO111-X-X Module series is designed to gather inputs from outside of the fire alarm system or provide output to control the devices that indicate alarms or trigger any device connected to the system.

All modules are certified by EN54 standard, which is the European standard (EN54-18 for input/output module, EN54-17 for short-circuit isolator).

IO111-I or IO111-I-IS is used to connect devices from outside the system that need to be included. IO111-I or IO111-I-IS can monitor the fault and alarm status of any device with relay contact. This capability allows devices that are not compatible with the fire panel to be added to the system.

IO111-O or IO111-O-IS can trigger any warning device in response to an alarm occurring in the fire alarm system. It is not affected by a power outage when changing relay direction.

IO111 or IO111-IS monitors the devices connected to its input and can control the desired devices in response to an alarm. It can be programmed as an input-only, output-only, or both input and output module using the programming device.

Each module in the IO111-X-X module series is available in models with and without a built-in isolator. The designation "IS" indicates that the device has a built-in isolator.

Features

- Input/Output Module
- Smart Addressable RAAP Protocol
- Powered by the loop
- Programmable with RB1201
- Two indicator LEDs
- Built-in isolator
- Memory Relay Output
- Open Circuit, Short Circuit and Alarm Detection
- Rail Mount and Wall Mount
- EN54-18 & EN54-17 Certified



EN54-18:2005 + EN54-17:2005

CPR No: 1922-CPR-1948

TECHNICAL SPECIFICATIONS

	IO111/IO111-IS	IO111-I/IO111-I-IS	IO111-O/IO111-O-IS
DESCRIPTION	Input/Output Module	Input Module	Output Module
STANDARDS	EN54-18/17	EN54-18/17	EN54-18/17
LOOP OPERATING VOLTAGE	16 - 30 Vdc	16 - 30 Vdc	16 - 30 Vdc
LOOP OPERATING CURRENT	<150µA @ 24 Vdc	<150µA @ 24 Vdc	<150µA @ 24 Vdc
MAXIMUM ALARM CURRENT	<12mA @ 24 Vdc (LED on)	<12 mA @ 24 Vdc (LED on)	<12 mA @ 24 Vdc (LED on)
RELAY CONTACT STRENGTH	300mA @ 24 Vdc	N/A	300mA @ 24 Vdc
SERIAL RESISTANCE	max. 1 Ohm	max. 1 Ohm	max. 1 Ohm
ADDRESSING MODE	Manuel Addressing	Manuel Addressing	Manuel Addressing

SPECIFICATIONS

SYSTEM WIRING	Min. 0,8 mm ² 2 core loop	Min. 0,8 mm ² 2 core loop	Min. 0,8 mm ² 2 core loop
MOUNTING POSITION	Wall Mount	Wall Mount	Wall Mount
MOUNTING OPTIONS	Surface Mount with Screw Rail Mount with Apparatus	Surface Mount with Screw Rail Mount with Apparatus	Surface Mount with Screw Rail Mount with Apparatus

ISOLATOR SPECIFICATIONS

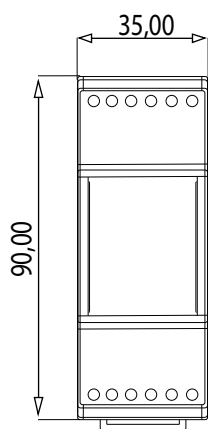
ISOLATOR TYPE/SWITCH CURRENT	SSCS (A.3) / 230-400mA	SSCS (A.3) / 230-400mA	SSCS (A.3) / 230-400mA
ISOLATOR RECONNECT/LEAKAGE CURRENT	3-13mA / max. 18mA	3-13mA / max. 18mA	3-13mA / max. 18mA
STANDBY CURRENT/SERIAL RESISTANCE	max. 150uA / max. 1 ohm	max. 150uA / max. 1 ohm	max. 150uA / max. 1 ohm

ENVIRONMENTAL SPECIFICATIONS

HUMIDITY	10% - 93% Relative Humidity	10% - 93% Relative Humidity	10% - 93% Relative Humidity
	Non-condensing	Non-condensing	Non-condensing
OPERATING TEMPERATURE	-10°C - 50°C	-10°C - 50°C	-10°C - 50°C
ENVIRONMENTAL CATEGORY	IP21	IP21	IP21

COMPATIBILITY

AP104 ADDRESSABLE FIRE PANEL	Yes	Yes	Yes
AP204 ADDRESSABLE FIRE PANEL	Yes	Yes	Yes
AP304 ADDRESSABLE FIRE PANEL	Yes	Yes	Yes

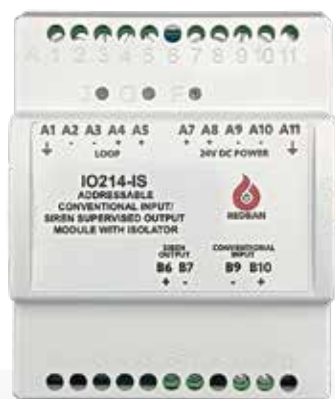


PHYSICAL SPECIFICATIONS

CASE MATERIAL	PC/ABS Case
DIMENSIONS (H x W x D)	90 x 35 x 40 mm
WEIGHT	70 grams

IO214, IO214-IS, IO214-I, IO214-I-IS, IO214-O, IO214-O-IS

ADDRESSABLE CONVENTIONAL INPUT SUPERVISED SIREN OUTPUT



IO214/IO214-X-X Module is designed to gather conventional inputs from outside of the fire alarm system or provide output to sounders that will indicate any alarms or trigger any sounder connected to the system.

All modules are certified by EN54 standard, which is the European standard (EN54-18 for input/output module, EN54-17 for short-circuit isolator).

IO214-I or IO214-I-IS is used to include conventional devices in the addressable system. IO214-I or IO214-I-IS can operate 32 conventional devices each, allowing for the addition of more devices to the system with just one address.

Output assignment can be made to IO214-O or IO214-O-IS according to the desired scenario. Based on this assignment, it can control a siren or any other device that operates with 24V.

IO214 or IO214-IS can function as both a conventional input and supervised siren output. It can be programmed as an input-only, output-only, or both input and output module using the RB1201 address programmer.

Each module in the IO214-X-X module series is available in models with and without built-in isolator.

Features

- Smart Addressable RAAP Protocol
- Conventional Input
- Supervised Siren Output
- Programmable with RB1201
- Three indicator LEDs
- Built-in isolator
- Open Circuit, Short Circuit and Alarm Detection
- Rail Mount and Wall Mount
- EN54-18 & EN54-17 Certified



EN54-18:2005 + EN54-17:2005
CPR No: 1922-CPR-1949

TECHNICAL SPECIFICATIONS

	IO214/IO214-IS	IO214-I/IO214-I-IS	IO214-O/IO214-O-IS
DESCRIPTION	Conventional Input / Supervised Siren Output	Conventional Input	Supervised Siren Output
STANDARDS	EN54-18/17	EN54-18/17	EN54-18/17
LOOP OPERATING VOLTAGE	16 - 30 Vdc	16 - 30 Vdc	16 - 30 Vdc
LOOP OPERATING CURRENT	<150µA @ 24 Vdc	<150µA @ 24 Vdc	<150µA @ 24 Vdc
MAXIMUM ALARM CURRENT	<12mA @ 24 Vdc (LED on)	<12 mA @ 24 Vdc (LED on)	<12 mA @ 24 Vdc (LED on)
RELAY CONTACT STRENGTH	300mA @ 24 Vdc	N/A	300mA @ 24 Vdc
SERIAL RESISTANCE	max. 1 Ohm	max. 1 Ohm	max. 1 Ohm
ADDRESSING MODE	Manuel Addressing	Manuel Addressing	Manuel Addressing

SPECIFICATIONS

SYSTEM WIRING	Min. 0,8 mm ² 2 core loop	Min. 0,8 mm ² 2 core loop	Min. 0,8 mm ² 2 core loop
MOUNTING POSITION	Wall Mount	Wall Mount	Wall Mount
MOUNTING OPTIONS	Surface Mount with Screw Rail Mount with Apparatus	Surface Mount with Screw Rail Mount with Apparatus	Surface Mount with Screw Rail Mount with Apparatus

ISOLATOR SPECIFICATIONS

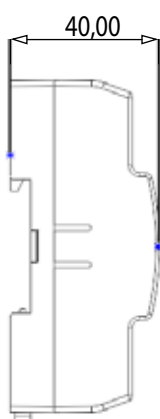
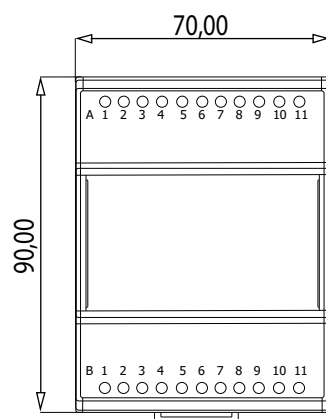
ISOLATOR TYPE/SWITCH CURRENT	SSCS (A.3) / 230-400mA	SSCS (A.3) / 230-400mA	SSCS (A.3) / 230-400mA
ISOLATOR RECONNECT/LEAKAGE CURRENT	3-13mA / max. 18mA	3-13mA / max. 18mA	3-13mA / max. 18mA
STANDBY CURRENT/SERIAL RESISTANCE	max. 150uA / max. 1 ohm	max. 150uA / max. 1 ohm	max. 150uA / max. 1 ohm

ENVIRONMENTAL SPECIFICATIONS

HUMIDITY	10% - 93% Relative Humidity	10% - 93% Relative Humidity	10% - 93% Relative Humidity
	Non-condensing	Non-condensing	Non-condensing
OPERATING TEMPERATURE	-10°C - 50°C	-10°C - 50°C	-10°C - 50°C
ENVIRONMENTAL CATEGORY	IP21	IP21	IP21

COMPATIBILITY

AP104 ADDRESSABLE FIRE PANEL	Yes	Yes	Yes
AP204 ADDRESSABLE FIRE PANEL	Yes	Yes	Yes
AP304 ADDRESSABLE FIRE PANEL	Yes	Yes	Yes



PHYSICAL SPECIFICATIONS

CASE MATERIAL	PC/ABS Case
DIMENSIONS (H x W x D)	90 x 70 x 40 mm
WEIGHT	90 grams

BA302-IS ADDRESSABLE MANUAL CALL POINT WITH BUILT-IN ISOLATOR



BA302-IS Addressable Resettable Manual Call Point with built-in isolator is designed for manual notification of fire or emergency situation in the addressable fire system. It can be activated by pressing the resettable plastic apparatus in front of it. An animated notification LED is present, and when the button is active, this LED stays constantly lit. After pressing the apparatus, it can be reset with special key. When the button is pressed and activated, it transmits the fire information to the control panel over the communication line. The address given to the MCP by the RB1201 Address Programmer is saved and stored in the memory. There is also a model without built-in isolator as BA302.

Features

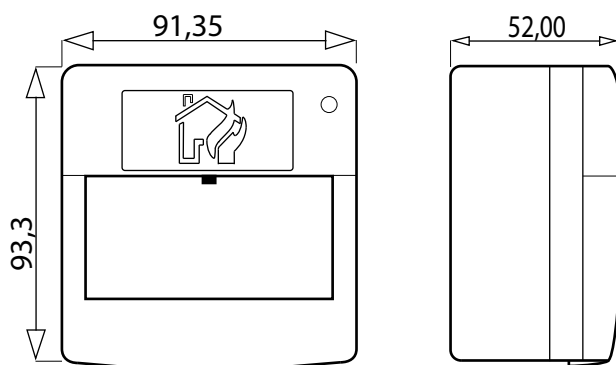
- Robust and aesthetic PC/ABS case
- Programmable address information in nonvolatile memory
- Programmable with RB1201 Address programmer
- Led indicator
- Resettable with special key
- Compatible with EN54-11 & EN54-17



EN54-11:2001 + EN54-17:2005

TECHNICAL SPECIFICATIONS

LOOP OPERATING VOLTAGE	16 - 30 Vdc
LOOP OPERATING CURRENT	<150µA @ 24 VDC (every 8 seconds with LED blink enabled)
MAXIMUM ALARM CURRENT	<4 mA @ 24 VDC (LED on)
ISOLATOR SPECIFICATIONS	
ISOLATOR TYPE/SWITCH CURRENT	SSCS (A.3) / 230-400mA
ISOLATOR RECONNECT/LEAKAGE CURRENT	3-13mA / max. 18mA
STANDBY CURRENT/SERIAL RESISTANCE	max. 150uA / max. 1 ohm
ENVIRONMENTAL SPECIFICATIONS	
HUMIDITY	10% - 93% Relative Humidity, Non-condensing
OPERATING TEMPERATURE	-10°C - 50°C



PHYSICAL SPECIFICATIONS

CASE MATERIAL	PC/ABS Case
DIMENSIONS (H x W x D)	93,3 x 91,35 x 52 mm
WEIGHT	120 grams

SA880-IS ADDRESSABLE FIRE ALARM SIREN WITH BUILT-IN ISOLATOR



SA880-IS Addressable Indoor Siren is designed for audio/visual warning in addressable system. SA880-IS is ideal for providing warnings in fire and security applications of buildings such as hotels and residences during emergency situations. It emits a loud warning to ensure the evacuation of building occupants. SA880-IS series sirens can be connected by the loop in the addressable fire alarm system. In addition, in case of a short circuit in the loop line, it isolates the next part of the loop line using the internal isolator. Upon activation, the SA880-IS initiates an auditory alert and also provides a visual alert with a red indicator and a white flash. These indicators have a 360° field of view. The device can be reset by de-energizing the power supply.

Features

- Robust and aesthetic PC/ABS case
- Transparent red color
- visual warning led and flash
- 86 dB sound intensity at 1 meter (max. 105dB)
- Loop powered
- Programmable with RB1201 address programmer
- Programmable address information in nonvolatile memory
- EN54-3 & EN54-17 Certified



EN54-3:2001 + EN54-17:2005
CPR No: 1922-CPR-2167

TECHNICAL SPECIFICATIONS

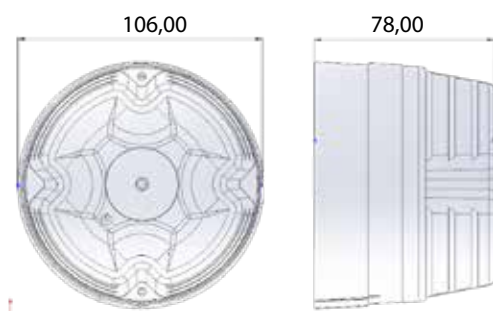
LOOP OPERATING VOLTAGE	16 - 30 Vdc
LOOP OPERATING CURRENT	<150µA @ 24 VDC (every 8 seconds with LED blink enabled)
MAXIMUM ALARM CURRENT	<12 mA @ 24 VDC (LED on)
SOUND INTENSITY	86 dB nom. (max. 105 dB)

ISOLATOR SPECIFICATIONS

ISOLATOR TYPE/SWITCH CURRENT	SSCS (A.3) / 230-400mA
ISOLATOR RECONNECT/LEAKAGE CURRENT	3-13mA / max. 18mA
STANDBY CURRENT/SERIAL RESISTANCE	max. 150uA / max. 1 ohm

ENVIRONMENTAL SPECIFICATIONS

HUMIDITY	10% - 93% Relative Humidity, Non-condensing
OPERATING TEMPERATURE	-10°C - 50°C



PHYSICAL SPECIFICATIONS

CASE MATERIAL	PC/ABS Case
DIMENSIONS (H x D)	78 x 106 mm
WEIGHT	140 grams



ADDRESSABLE FIRE DETECTION AND CONTROL SYSTEM

SOLUTION 2

AP204 ADDRESSABLE FIRE ALARM CONTROL PANEL



REDBAN S2 SOLUTION 2



EN54-2:1997 + EN54-4:1997
CPR No: 0370-CPR-3289

AP204 Addressable Fire Alarm Panel is the main component of Redban Solution 2 series. The panel is working on CDS2 protocole. Solution S2 products work with only S2 device range. S1 and S3 devices do not work with S2 solution range.

REDBAN AP204 Addressable Fire Alarm Panels are designed by the leading technology and microprocessor based devices. Repeater panel connection are onboard in the panel. By connecting Computer, the programming and supervision can be carried out simply. The main goal of the device is robust design and simple user-friendly programming.

On main board, there are 4 loop connectors for LK204-CD loop cards. By installing LK204-CD loop cards the panel can host up to 4 loops. There can be installed 250 detectors per loop upgradable to 1000 devices per panel.

The user interface has 128x64 graphic lcd display, function buttons and indicator leds. On the device there are seperate indicator leds for 16 different zones; Trouble leds, Sound and Alarm indicators, Power, Ready, By-pass indicator leds as described in EN54-2/4 European Norm. All the system conditions are displayed on the central via seperate indicator leds as well. The central supervises system troubles, conditions and displays to the user. By the Reset, Alarm, Cancel Alarm, Silence, Test and Evacuate buttons, user can perform simply the system functions. The general system indicators: Power, Ready, Prealarm, Fire Alarm, Cancel Alarm, Silence and Evacuate indicator leds are displayed on the lefthand of central and the Trouble indicator leds are Ac Loss, Battery Error and Siren Error are displayed in the righthand on the central.

Features

- Available in 1-4 loop versions
- Arm based microprocessor design
- Robust and aesthetic Metal Case
- Programmable 250 zones/16 zone leds
- 128x64 LCD screen
- 20 character zone & device names
- Repeater Panel connectiop
- Configuration and control software
- User friendly programming
- Flexible scenario
- Onboard USB & 2 RS485 interface
- Printer Interface
- Day&Night mode delays per zone
- Turkish & English language
- Real time clock
- 65000 Event log with time stamp
- EN54-2 & EN54-4 Certified

