AP204 ADDRESSABLE FIRE ALARM CONTROL PANEL

REDBAN
S2
SOLUTION 2

EN 54-2   EN 54-4

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.
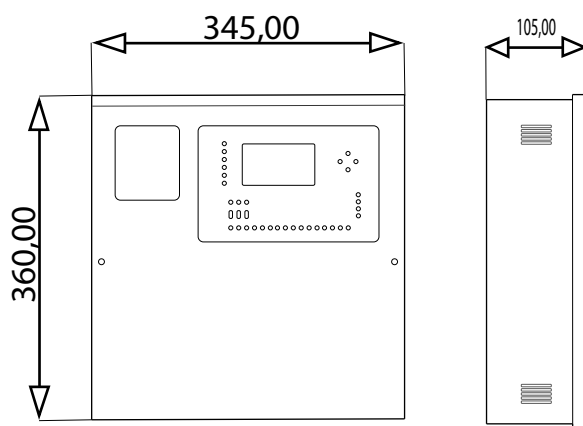
The user interface has 128x64 graphic lcd display, function buttons and indicator leds. On the device there are seperate indicator leds for 16 different zones; Trouble leds, Sound and Alarm indicators, Power, Ready, By-pass indicator leds as described in EN54-2/4 European Norm. All the system conditions 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

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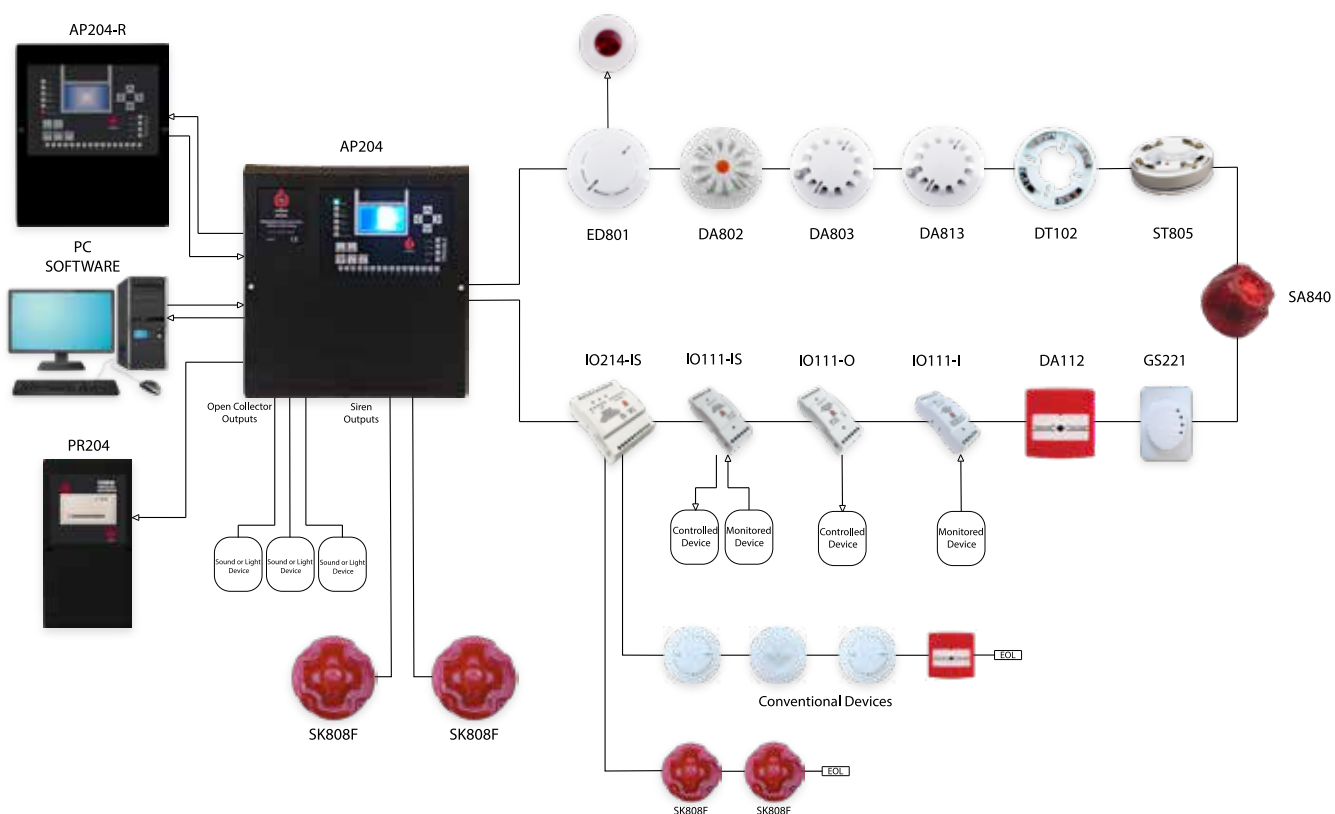| TECHNICAL SPECIFICATIONS	AP204-1	AP204-2	AP204-4
OPERATING VOLTAGE	180-240 Vac	180-240 Vac	180-240 Vac
POWER CONSUMPTION	100 Watt	100 Watt	100 Watt
NUMBER OF LOOP	1	1-2	1-4
NUMBER OF DEVICES IN THE LOOP	250	250	250
MAXIMUM NUMBER OF DEVICES OF THE PANEL	250	500	1000
LOOP CURRENT	180 mA	180 mA	180 mA
LOOP LOAD	120 Ω	120 Ω	120 Ω
BATTERY TYPE	Sealed Lead Acid Battery	Sealed Lead Acid Battery	Sealed Lead Acid Battery
BATTERY CAPACITY	2 X12V 7Ah	2 X12V 7Ah	2 X12V 7Ah
BATTERY SHORT-CIRCUIT PROTECTION	Yes	Yes	Yes
SIREN SUPERVISED OUTPUTS	1	1	1
OUTPUT TYPE	Relay N.Open Contact	Relay N.Open Contact	Relay N.Open Contact
CONTACT STRENGTH	2A @ 30V DC	2A @ 30V DC	2A @ 30V DC
FUSE	400 mA, Auto Reset	400 mA, Auto Reset	400 mA, Auto Reset
OUTPUT VOLTAGE	27,6 Vdc	27,6 Vdc	27,6 Vdc
END OF LINE RESISTANCE	6.8 K Ω 1/4 Watt	6.8 K Ω 1/4 Watt	6.8 K Ω 1/4 watt
GENERAL PURPOSE OUTPUTS	3	3	3
OUTPUT TYPE	Open Collector	Open Collector	Open Collector
OUTPUT CURRENT	50 mA	50 mA	50 mA
ALARM RELAY OUTPUT			
OUTPUT TYPE	N.Open (NO), N.Closed (NC)	N.Open (NO), N.Closed (NC)	N.Open (NO), N.Closed(NC)
CONTACT STRENGTH	2 A @ 30 v DC	2 A @ 30 v DC	2 A @ 30 v DC
ERROR RELAY OUTPUT			
OUTPUT TYPE	N.Open (NO), N.Closed (NC)	N.Open (NO), N.Closed (NC)	N.Open (NO), N.Closed (NC)
CONTACT STRENGTH	2 A @ 30 v DC	2 A @ 30 v DC	2 A @ 30 v DC
24V DC PROTECTED VOLTAGE OUTPUT	Yes	Yes	Yes
OUTPUT CURRENT	400 mA, Resettable Fused	400 mA, Resettable Fused	400 mA, Resettable Fused
24V DC NOT PROTECTED VOLTAGE OUTPUT	Yes	Yes	Yes
OUTPUT CURRENT	2A (Unfused)	2A (Unfused)	2A (Unfused)
SERIAL DATA INTERFACE (USB - RS485)	1-2	1-2	1-2
BAUDRATE	9600 BPS	9600 BPS	9600 BPS
DATA BITS	8	8	8
PARITY BIT	None	None	None
STOP BIT	1	1	1
FLOW CONTROL	None	None	None
DATA RETENTION	10 Year	10 Year	10 Year
GK120 POWER SUPPLY (Parameters)			
Battery Resistance	400 mΩ	400 mΩ	400 mΩ
EN54-4 Test Parameters Imin, Imaxa, Imaxb	27mA, 1.5A, 1.8A	27mA, 1.5A, 1.8A	27mA, 1.5A, 1.8A

345,00

105,00

360,00

ENVIRONMENTAL SPECIFICATIONS

OPERATING TEMPERATURE	-10 °C ≈ +55°C
HUMIDITY	%0 ≈ %95 Relative Humidity
ENVIRONMENTAL CATEGORY	IP21

PHYSICAL SPECIFICATIONS

CASE MATERIAL	METAL CASE
DIMENSIONS (H x W x D)	36 x 34,5 x 10,5 cm
WEIGHT	5,4 Kg (without battery)

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SCHEMATIC DIAGRAM

RELEATED DEVICES

Model	Device	Base Used			Indicator Output	Built in isolator
		DT102	DT202	Sounder Base		
DA801	Smoke Detector	✓	✓	✓	✓	-
DA802	Heat Detector	✓	✓	✓	✓	-
DA803	Combined Detector	✓	✓	✓	✓	-
DA813	Combined Detector with Built-in Isolator	✓	✓	✓	✓	✓
BA102	Manual Call Point	-	-	-	-	-
DA112	Manual Call Point with Built-in Isolator	-	-	-	-	✓
IO111	Input/Output Module	-	-	-	-	-
IO111-I	Input Module	-	-	-	-	-
IO111-O	Output Module	-	-	-	-	-
IO111-IS	Input/Output Module with Built-in Isolator	-	-	-	-	✓
IO111-I-IS	Input Module with Built-in Isolator	-	-	-	-	✓
IO111-O-IS	Output Module with Built-in Isolator	-	-	-	-	✓
IO214	Addressable Conventional Input&Supervised Siren Output Module	-	-	-	-	-
IO214-I	Addressable Conventional Input Module	-	-	-	-	-
IO214-O	Supervised Siren Output Module	-	-	-	-	-
IO214-IS	Addressable Conventional Input & Supervised Siren Output Module with Built-in Isolator	-	-	-	-	✓
IO214-I-IS	Addressable Conventional Input Module with Built-in Isolator	-	-	-	-	✓
IO214-O-IS	Supervised Siren Output Module with Built-in Isolator	-	-	-	-	✓
GS221	Methane & Buthane Gas Detector	-	-	-	-	-
SA840	Addressable Sounder with Flasher	✓	✓	-	✓	-

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