

FA-ACP-1X Series Analogue Addressable Control Panel



APPROVED TO THE REQUIREMENTS OF EN54 Pt 2 & Pt 4 1999

Specifications:

Loops

Primary Supply Voltage

EMC Standard

Secondary Supply Voltage

Power Supply Rating

Quiescent Current (Without Devices)

Auxiliary Relay Ratings

Repeater Outputs

Dimensions

IR Keypad Batteries

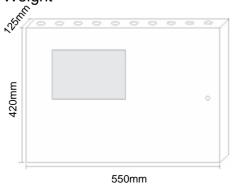
Fuses

Box *

Cable Entries

Battery Capacity

Weight



1-12 Networkable up to 96 loops

85~264 VAC

EN55022 Class B

EN61000-4-2,3,4,5,6,8,11

EN61000-3-2,3

24V DC Nominal

65W or 150W

130mA

50V AC / DC 1 Amp Resistive (Min 100mA, 6V)

Open Collector 24V DC 100mA Max

W 550mm x H 420mm x D 125mm

2 x AAA

Battery: 3A Printer: 1A

1.5mm Aluminum Or Mild Steel Coated White

Back Through Cut Out / Top By 6 Removable Plugs

Up To 2 x 12V 12A/H

6.6 Kgs

CE DECLARATION OF CONFORMITY

This Panel is CE Marked to Show that it Conforms to the Requirements of the Following European Community Directives:

- Electromagnetic Compatibility Directive 89/336/EEC (and the Amending Directive 92/31/EEC)
- ■Low Voltage Directive 73/23/EEC

CE



FA-ACP-0X Series Analogue Addressable Control Panel



APPROVED TO THE REQUIREMENTS OF EN54 Pt 2 & Pt 4 1999

Specifications:

Loops

Primary Supply Voltage

EMC Standard

Secondary Supply Voltage

Power Supply Rating

Quiescent Current (Without Devices)

Auxiliary Relay Ratings

Repeater Outputs

Dimensions 1~3 Loops

IR Keypad Batteries

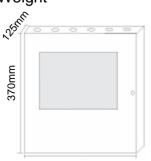
Fuses

Box *

Cable Entries

Battery Capacity

Weight





1 or 3 Networkable up to 96 loops

85~264 VAC

EN55022 Class B

EN61000-4-2,3,4,5,6,8,11

EN61000-3-2,3

24V DC Nominal

65W or 150W

130mA

50V AC / DC 1 Amp Resistive (Min 100mA, 6V)

Open Collector 24V DC 100mA Max

W 340mm x H 370mm x D 125mm

2 x AAA

Battery: 3A Printer: 1A

1.5mm Aluminum Or Mild Steel Coated White

Back Through Cut Out / Top By 6 Removable Plugs

Up To 2 x 12V 12Ah

4.2 Kgs

CE DECLARATION OF CONFORMITY

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- Electromagnetic Compatibility Directive 89/336/EEC (and the Amending Directive 92/31/EEC)
- ■Low Voltage Directive 73/23/EEC

340mm



FA-ABG Addressable Break Glass







FA-ABG-WP

Features:

- Two Wire Connection for Easy Installation
- Compatible with Standard Single-Gang Mounting Boxes
- Suitable for Flush Mounting or Surface Mounting
- Simple DIP switch Setting
- Integral LED Controlled from Panel
- Tested to BS5839 Part 2

Description:

The FA-ABG is Designed to be Used as a Component of a Compatible Fire Control System Using Intech Analogue Addressable Devices. It is a Dedicated Addressable Break Glass Unit for Installation on a Two Wire Communication Circuit Providing Both Signaling of Alarm to the Monitoring Control Panel and Local LED Indication of Activation.

The FA-ABG may be Installed as Either a Flush or Surface Mounted Device in a Normal Internal Environment. It is not Intended for Use in an Externally Exposed or Hazardous Location.

The FA-ABG May be Flush Mounted to Compatible Electrical Boxes.

Specifications:

Minimum Operating Voltage: 15V
Maximum Operating Voltage: 32V
Standby Current: 40 uA
Alarm Current: 20 mA

Models available

FA-AGB-01 Standard (indoor)

FA-ABG-F Standard (indoor) with FLIP cover

FA-ABG-WP Weatherproof (outdoor)

TEL.: ++30-210-6398802, FAX: ++30-210-6393800. E-Mail: intech1973@yahoo.com



FA-ABL-XX Series Addressable Fire Alarm Bell

Features:

- •High Efficiency Low Current Consumption 24 VDC Bells.
- ■Terminals will Accept 2.5mm Cables.
- Simple Installation Via Multi-Fixing Base Plate for All Types of Locations.
- Designed for Installation on a Standard4" Square Electrical Box (WP Model).
- Adaptors Allow Surface, Semi-Flush,
 Flush and Weatherproof Mounting
 (WP Model).
- •Fully Suppressed and no Interference with Other Equipment.
- •Manufactured According to UL Standards.
- Address setting by DIP switch





Weatherproof Box FA-WBB-01

Specifications:

Dimensions: 6" (152mm)
Voltage: 24 VDC

Current: 25mA

Sound Output: 96dB @ 1 M

Operating Temperature: -35°C to 60°C @ 95% RH

Movement: Motor & Striker (01) or Solenoid (WP)

Gong: Steel Secured with Screw

Weight: 0.9 Kgs (Approx.)

Models available:

FA-ABL-01 Standard Indoor FA-ABL-WP Weatherproof



FA-ACP-EX Series Analogue Addressable Fire Alarm Control Panel

The **FA-ACP-EX** range of analogue addressable control panels features single loop expandable to two loops models, and it provides a cost effective solution for small to medium sized installations.

Designed and manufactured to comply with the requirements of EN54 standards, it supports 125 devices per loop.

Using advanced communications up to 32 individually addressed Loop sounders can be connected in each loop.

An LCD display of 4 rows gives clear textual information of FIRE/FAULT conditions to end user.

There are also 16 zones Fire LED indicators.



Repeaters can be connected via RS422/RS485, Fiber Optic or TCP/IP interfaces.

Features:

- ■Single loop expandable to two loops, 125 devices per loop.
- ■Universal Automatic power input 90-260 VOLTS 50/60 Hz.
- Detector loops monitored for integrity.
- 2 supervised/ monitored conventional sounder circuits
- ■384 fully programmable zones
- ■512 fully programmable sounder groups
- ■512 fully programmable INPUT/OUTPUT groups.
- ■Event log (rolling 2000 entries).
- ■Backlit LCD display with 4 rows of 40 characters
- Programming by Software.
- 2 Relay outputs fire and fault
- Power supply 1,7A at 28 Vdc
- Fully EN54 part 2 and 4 compliant
- ABS Fire retardant enclosure
- ■Repeater output via RS422/485, Fiber Optic or TCP/IP interfaces.
- •Up to 32 individually addressed Loop sounders can be connected.

INTEGRAL TECHNOLOGIES - AIOLOU 2A STR., ATHENS 15342, GREECE TEL: +30-210-6398802, FAX: +30-210-6393800.



FA-ACP-EX Series

Analogue Addressable Fire Alarm Control Panel

Technical Specifications

Mains supply voltage 85-264v 50/60Hz

Internal power supply Min.20V DC-Max.30V DC (28.5V DC nominal) Max. Ripple 1V peak-pea

Total output current 1,7A @230 Vac

Supply and battery charger monitored YES

Batteries monitored YES

Max battery size 2 x 12V 7AH SLA

Mains Fuse 4 A – 250 V Slow Blow – 20mm Battery Fuse 1.6 Amp resettable – Electronic Fuse

Max Current Draw from Battery (Mains Fails) 1.5 Amp Max.@ Max. Operating Temperature

Detection Circuit Specification

Number of loops One expandable to two

Max number of devices 125 per loop Max cable capacitance 120 pF/m Max. loop cable length 1.2 Km

Recommended cable 0.5 – 2.5 sq. mm

Cable type Shielded
Cable category FPLR

Max number of addressable sounders 32 per loop

Addressable sounder type Low current

Sounder Circuit Specification

Number of circuits 2

End of Line Resistor value 10 K Ohms

Monitoring Open and short circuit

Alarm Voltage 27.5 V DC

Sounder circuit Fuse 1.1 Amp resettable (Electronic Fuse)

Max. Current available 1 Amp @ 27,5 V DC Nominal

Auxiliary Outputs

Aux power output 27.5 V DC Nominal – Max. Current Drawn 300mA

Fire relay Active in Fire condition, load 30V DC/1A resistive

Fault relay Normally closed, fail safe open on any fault, load 30V DC/1A resistive

Quiescent power

Internal circuits 100 mA
Battery charger 1 A
Analogue loop 275 mA

Dimensions

Size 274 (W) x 404 (L) x 109 (H) mm

Weight without batteries 1,6 Kgs

Operating Conditions

Operating Temperature 0 to +40 C

Max Relative Humidity 85% non condensing



FA-ADD-400 Series Addressable Duct Detector

Features:

Easy Installation

Detects Smoke in High Speed Air-Flows

Remote LED Option

Simple address selection by DIP switch

Quick Detector Head Removal and Cleaning



FA-CDD-XX

Specifications:

Operating Voltage: 24 VDC from the FACP or 24 110 / 220 V AC

Max Standby Current: 42 μA

Max Alarm Current: 60 mA

Operating Temperature: 0° C to 70° C

Air Duct Velocity: 2.5 to 20 m/s

Dimensions: 368 x 128 x 100 mm

Weight: 2 Kgs

Sampling tube Available in various lengths

Models available:

FA-ADD-24 24 VDC

FA-ADD-AC 24 / 110 / 220 AC 50/60 Hz



FA-AGD-XX Series

Addressable GAS detector



FA-AGD-C



FA-AGD-W

Features:

- •Model FA-AGD-X Series Detectors for Sensing and Monitoring LPG, CO and Natural Gas.
- ■Easy to Install in Wall or Ceiling.
- •Using Microprocessor for Circuit Control and Gas Monitoring to Assure Performance Stability and Reliability.
- Sounding a Loud Alarm Signal of 85 dB at Alarm Mode.
- Simple address selection by DIP switch
- Ergonomic Design of Detector Casing.
- ■No Battery is Required for Circuit Control.
- Relay Output Provides Relay NO/NC (Normal Open/Normal Close) Contact for Connection with a Central Monitoring System or Other Applications (Exhaust Fans, Gas Valve Etc.).

| Model | Mount Type | |
|-----------------------|----------------------------|--|
| FA-AGD-C | Ceiling | |
| FA-AGD-W | Wall | |
| Specifications: | | |
| Power Supply | 24V DC or 220 VAC, 50/60Hz | |
| Power Consumption | 7W | |
| Dimensions | | |
| FA-CGD-C | 120D – 51H mm | |
| FA-CGD-W | 120H - 68W - 40D mm | |
| Operating Temperature | 0°C ~ 40°C | |
| Sensitivity | Less Than 15% LEL | |



FA-ALI LINE ISOLATOR MODULE

Description

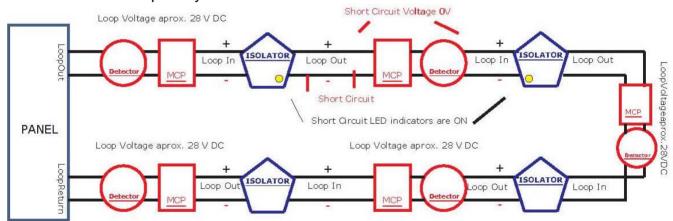
The INTECH FA-ALI isolator is designed to provide protection against short circuits faults in FA-ACP-E and FA-ACP-XX systems. In case of short circuit the isolator disconnects the faulty part of the loop and automatically reconnects it to the system when the short is rectified.

The isolator is housed in a box with two (2) YELLOW LEDS for easy identification which side of the device is a short circuit.



Up to 32 devices may be fitted between two isolators as per EN54 standards.

WARNING: The isolator is polarity sensitive and can be damaged if connected in reverse polarity.



Specifications

Minimum operating voltage 17 VDC

Maximum Operating Voltage 40 VDC

Quiescent current 150 uA @ 24 V

Current in isolated state 5.4 mA @ 24 V

Maximum loop current 1 A

Operating humidity 0-95% RH non-condesning

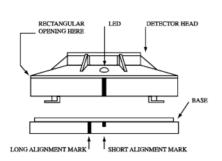
Operating temperature -20 to +60 deg. C

Storage temperature -30 to +80 deg C

Dimensions Dia: 100 mm H: 40 mm with lid



FA-APD/AHD Addressable Smoke and Heat Detectors





FA-APD Optical Smoke Detector:

The Optical Smoke Detector has an Internal Pulsing LED and Photo-Diode at an Obtuse Angle. In Clear Air Conditions the Photo-Diode Receives no Light from the LED and Produces a Corresponding Analog Signal. When Smoke Enters the Chamber it Scatters the Light onto the Photo-Diode, Increasing the Signal Transmitted to Control Equipment. The Clear LED Emits Continuous Red Light when the Detector is in Alarm Stage and Blinks Green in Standby Position.

FA-AHD Heat Detector:

The Heat Detector has a Low Air Flow Resistant Case for Good Contact Between Sensing Thermistor and Surrounding Air. Temperature is Measured by a Single Thermistor Network which gives a Voltage Output Proportional to the External Air Temperature. The Signal is Processed and Transmitted to Control Equipment.





EN-54

Specifications:

| Model | FA-APD | FA-AHD |
|--|---------------|---------------|
| Size of Device in Base H x D mm | 46 x 100 | 46 x 100 |
| Supply Voltage | 17 – 28 VDC | 17 – 28 VDC |
| Quiescent Current | 340 μΑ | 250 μΑ |
| Normal Surge Current (Synchronized to ADC Operation) | 600 μΑ | 310 µA |
| Alarm Indication | Red LED | Red LED |
| Alarm LED Current | 4 mA | 2 mA |
| Normal Operating Temperature | -20° to +60°C | -20° to +70°C |
| Humidity (No Condensation) | 0-95% | 0-95% |
| Maximum Wind (Continuous) | Unaffected | - |



FA-ASM CONTROL MODULE

The FA-ASM is an External Powered Sounder Control Module, Designed Mechanically to be Mounted Inside a Standard Module Box.

The Main Features of this Module is its Capability to Drive and Monitor a Bell Output With a Maximum Output of 1A. The Wiring to the Sounders is Monitored for Short and Open Circuit in Quiescent Mode Requiring a Single 10Khom Resistor to be Placed at the End of the Monitored Line.

A Six Way DIL Switch of Which Only the First Five Sections are Used Allows Programming of Addresses 94 to 125.

The Output of the Modules is by a Two Way Terminal Block Where the Line of Sounders to be Driven is Connected. The Output Can Either be Pulsed or Continuous and the Sounders can be Connected as Single Frequency or Sweep.

The Protocol Used by the FA-ASM is Compatible with FA-ACP. When Exposed to a FA-ACP Interrogation Format the Module Just Continues its Power Management Function Without Disturbing the Communication of Eventual INTECH Devices in the Loop.

The FA-ASM Responds only to the FA-ACP Protocol Extension Implemented by INTEGRAL TECHNOLOGIES in its Control Panels and Which Allows Synchronization of All Sounders in a Loop. A Maximum Number of 32 Modules Can be Connected to Each Addressable Loop.

The Current Derived to the Sounder Output is Limited to 1 A Which Protects the Output from Overloading if the Output is Accidentally Shorted.

When the Line Monitored is Correctly Terminated by a 10Khom Resistor an Analogue Value of 16 is Returned Upon Interrogation of the Device. If the Sounder line is Either Interrupted or Short Circuited at any Point, a Fault Value of 4 is Returned. When in Alarm, the Analogue Value Reported by the Device is Always 17. This Signals to the Control Panel that the Sounder Controller has Responded to its Activation Command.

Technical Characteristics

Working Voltage
Output current
Quiescent Current Consumption
Alarm Current Consumption
Operating Temperature
Humidity

Dimensions

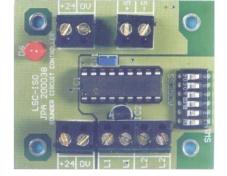
External Supply

Working Voltage
Quiescent Current Consumption
Alarm Current Consumption

1 A 750uA Max. 1.5mA Max. 0 - 85°C 30 – 95%

17-40 Volts DC

Non-Condensing 57mm x 48mm



12 – 30 Volts DC 1.9mA Max. 23mA Max



FA-ASX-24 Series Addressable Sounder & Sounder Strobe



FA-ASO-24



- ■Special Electronic Alarm effect
- •Unique Design to Substitute the Traditional Mechanical Bell of Hydrant Box.
- High output and small size
- ■Waterproof Characteristic.
- ■All Material UL Recognized.
- ■Built in Polarity Reverse Protection.
- Available in various tones
- Address setting by DIP switch

Specifications:

Operating Voltage: 24V DC

Power Consumption: 25 mA (Average)

Siren Output: 105 +/-5 dB

Operation Frequency: 1.0KHz – 1.5KHz

Power Cord: 30 cm in General

Color: Red

Dimensions 82 x 82mm

Can be Directly Fit into MK Back Box



FA-ASS-24

Features:

- We Developed this Model Intending to Replace Traditional Mechanical Alarm Bells
- Especially the Models Combined with Strobes that Strengthen Alarm Functions
- Special Audio Alarm Effect Increases the Effectiveness of the Fire Warning
- Waterproof, Easy to Install Design
- ■8 HIGH INTENSITY LEDS
- Address setting by DIP switch

Specifications:

Operating Volt. 24V DC

Current: 43 mA

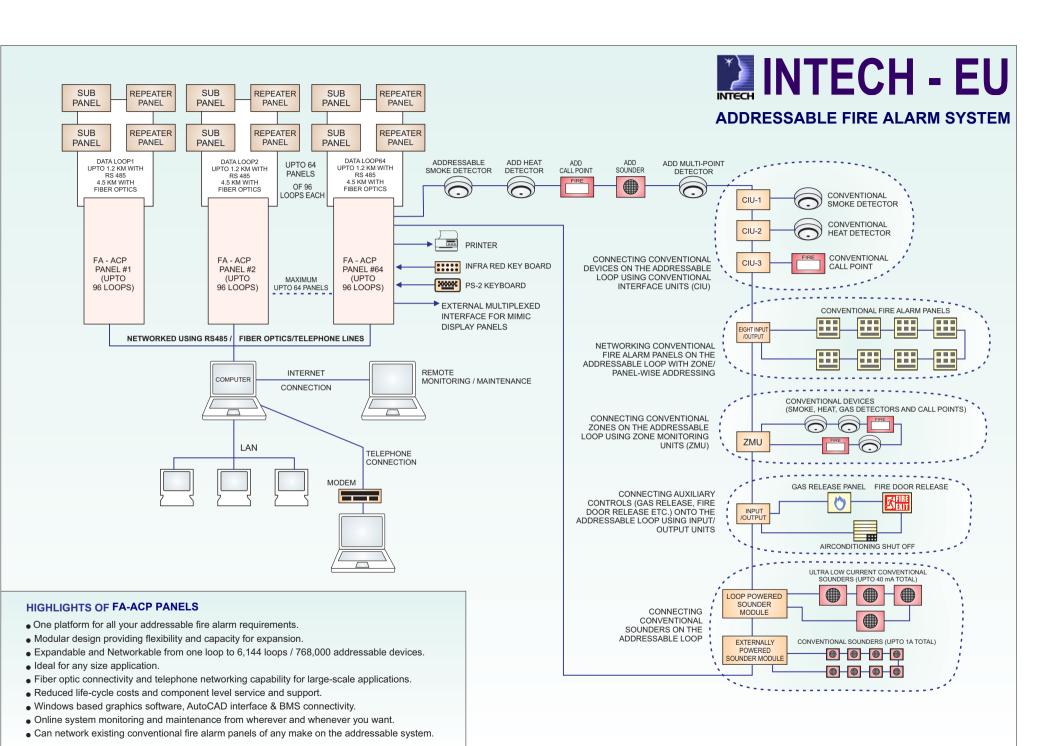
Siren Output: 105 +/- 3dB(at 1m)

Operation Frequency: 1.0KHz – 1.5KHz Power Cord: 30 cm in General

Color: Red + Red Lens

Dimensions 82W x 82H mm

Can be Directly Fit into MK Back Box





FA-ARP-XX Addressable repeaters



FA-ARP-EX



FA-ARP-XX

Features:

The Intech FA-ARP-XX Addressable repeaters (annunciators) provide a Compact, Attractive Means of Remotely Indicating Fire Alarm Conditions. Although the Units are Intended to for use with Fire Alarm Detection and Signaling Panels, they can be used whenever Visual Annunciation is Required.

Wiring to the Annunciator is Secured by Pressure Type Screw Terminals.

These repeaters (Annunciators) duplicate the indications and controls of the panels to which are connected.

- •FA-ARP-EX is used with the INTECH FA-ACP-EX panels.
- •FA-ARP-XX is used with the FA-ACP-XX panels.

☐ FA-ARP-EX

This is a microprocessor Repeater for use with the FA-ACP-EX Panels.

Controls are similar to the main panel.

Other housings available on request.

Specification

Size 274x404x109 mm
Weight without batt.1,6 Kgs

☐ FA-ARP-XX

This is a repeater panel which duplicates the indications and control of the panel connected. It is networkable as the main panels

Specification

Size: W 340mm x H 370mm x D 125mm

Weight: 4.2 Kgs