BRISTOL

Fire Detection & Alarm Devices

Conventional, IGN Addressable Series

CONTENTS

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Intelligent Addressable Fire Alarm Control Panel

EN 54-2
1330h(cl-I)

The IGN comprise of a range of analogue addressable, microprocessor based fire alarm control equipment to offer flexibility in both design and operation. The System is modular concept for easy tailoring of system design, to meet the full requirements of the project. The IGN Intelligent Fire Alarm Control Panel is designed and manufactured to meet the requirement of BS EN54 Part 2&4.

The IGN is designed to provide early warning fire detection, to quickly identify the location of fire and provide user definable text informing the occupants of the building of potential smoke spread. Simultaneously, the IGN will alert and evacuate the occupants, and control all necessary auxiliary command functions such as elevator control, air handling shut down, gas shut off & damper control, as per the cause and effects requirements configured though Command Builder Set-up.

COMMISSIONING ADVANTAGES

- Auto Enrolling of Devices
- Loop Mapping with color coding status
- Monitor device mismatch and dual address conflict
- Command Builder to create requirements for fire event scenario
- With Loop protection against power surge
- One-man test with On/Off sounder Programming Protection

FEATURES

- Certified EN54-2:1997 +A1:2006, EN54-4:1997 + A1:2002 + A2:2006
- LPCB Approved
- Using advance microprocessor technology with Large memory capacity
- Enhance user interface combining LCD Touch screen and keypad access
- Support real time visual algorithm
- Enhance false alarm prevention
- Keypad and PC programming
- Support Multiple interface protocol such as USB/Ethernet/Can Bus/Serial/RS485/Fiber Optic
- Support Loop Powered devices for extra saving on cable cost
- Built-In Printer and 160 LED Zones Indicators

SYSTEM CAPACITY

- Up to 4 loop (6 loop standalone)
- Support 254 Devices (1,524 ideal)
- Network up to 512 Node
- Programmable Capacity
- Zones up to 3000
- Sounders Groups 1-1000
- Other Groups 1001- 2000
- Built-in 160 LED Zones Indicator

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Technical Data

MODEL Series	IGN-250
Standard	EN54-2: 1997 + A1: 2006 & EN54-4: 1997 + A1: 2002 + A2: 2006
Maximum Loop	4 with Network Card, 6 Standalone
Input Voltage	240VAC +10%-15%, 50/60Hz
Input Current Consumption	1A
PSU Output to CIE	24.5 to 28.5 VDC
Batteries	2 x 12V / 24AH
Panel to panel communication	Can Bus [loop]
Number of Panels	512
Interface Port	USB, RS485, RS232 Serial, Ethernet
Memory [Non-Volatile]	1,000 Fire Events, 10,000 General Event
Zones	3,000 programmable
Total Group	3,000 programmable: Sounder=1,000/Common=2,000
Protocol/Addressing	T&A, Value range from 1 to 254
Protection	Built-in 4kV Surge protection
Power rating	16 to 24Vdc
Cabling	1.2Km Max Length / 2 x 1.5mm2 solid core Fire resistance
Programmable Relays	4 circuits: Normally Open/Close
Programmable Input	1 Circuit: Power limited 24Vdc
Programmable Auxiliary Power	19 t0 28 VDC (Note: Current Limited)
Fixed Outputs (FPE/Sounder)	2 Circuits: 18 t0 28 VDC (Note: Current Limited)
Indicator	24 LED Status/ 16 Zone Indicator
Display	7" TFT Touch Screen
Keypad	5 Brigade buttons and Programming Keypad
Material / Color	Flat sheet Metal / with outer glass door, Orange stripe
Dimension Lx W x H	530 mm x 490 mm x 135 mm
Weight	16.70 Kg
Humidity	0 to 95% Relative Humidity, Non condensing

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Alarm Devices

Alarm Devices in Fire Detection and Alarm System are devices that are activated during presence of fire to provide notice to the concerned people in form of audio or visual signals. Though in some cases, signals are already directed to the fire department. BRISTOL offers audio/visual alarm devices that comply to international and local standards.

EN 54-2
1330h(cl-I)

0832-CPR-F1702
Y17

IGN-8401

Manual Call Point

IGN-8401

The IGN-8401Addressable Manual Call point use a non-breakable glass which is designed to press under light pressure triggering the call point into an alarm condition, with LED indicator mounted onto the front face to simplify the location of an operated call point. Safe to press and no hammer is required. The protected flap on the lower part is used for reset through supplied special tool.

TECHNICAL SPECIFICATIONS	
Standard	EN 54-11:2001 + A1:2005
Input Voltage	24VDC [16V to 28V]
Current Consumption	Standby 0.6mA, Alarm: 1.8mA
Protocol/Addressing	T&A, Value range from 1 to 254
Indicator	Single LED / Steady On-when pressed
Material / Color	Fireproof ABS / RED Glossy finishing
Dimension / Height	89 mm x 93 mm x 35 mm
Weight	102g (with Base), 80g (without Base)
Class	Type A, Indoors
Operating Temperature	-10°C to +55°C
Ingress Protection Rating	IP43
Humidity	0 to 95% Relative Humidity, Non condensing

FEATURES

- EN 54-11:2001 + A1:2005
- LPCB Approved
- Using microprocessor technology
- Digital addressing
- Non-breakable glass and hammerless
- Safe to operate and easy to reset
- Surface mounted, indoor application

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Detectors

Detectors are equipment designed to monitor presence of fire which is manifested by heat and smoke. Heat detectors can be classified as fixed-temperature, rising-heat or combination of both while smoke detectors work either by optical detection or by ionization. BRISTOL Detectors are designed with great regard to quality and comply to international and local standards.

Intelligent Addressable Optical Smoke Detector

IGN-7401

The IGN-7401 Intelligent Addressable Optical Smoke Detector is the ideal device for most applications, due to its spiffing linear response to a wide variety of different types of smoke patterns. The unit manufactured the sensitivity requirement of EN 54 part 7, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit incorporates an intelligent processor that provides Algorithm map, inbuilt A/D converter, Drift compensation, and Self-Diagnosis and History log.

Features

- LPCB Approved
- Using microprocessor technology with memory capacity up to 10 events
- Analogue sending and digital addressing
- Provide real time algorithm to the control panel
- Smart linear drift compensation
- Onsite adjustable parameter
- 360-degree visual indicator
- Removable chamber against dust and small insect
- Ancillary remote indicator output
- Aesthetically pleasing design

TECHNICAL SPECIFICATIONS	
Standard	EN54-7 :2000 +A1:2002 +A2:2006
Input Voltage	24VDC [16V to 28V]
Current Consumption	Standby 0.6mA, Alarm: 4mA
Protocol/Addressing	T&A, Value range from 1 to 254
Sensitivity	As per stipulated standard
Indicator	Single LED / 360 degree Visual
Material / Color	ABS / White Glossy finishing
Dimension / Height	Diameter 99.7 mm / 57 mm
Weight	145g (with Base), 90g (without Base)
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Non condensing

LPCB

EN 54-2
1330h(cl-I)

CE

0832-CPR-F1702
Y17

IGN-7401

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Intelligent Dual Heat Detector

IGN-7402

The IGN-7402 Intelligent Fixed and Rate of Rise Heat Detector is reliable for application in places where may have high dust level or smoky environments, making a normal smoke detector undesirable. The unit manufactured base on the sensitivity requirement of EN 54 part 5, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit incorporates an intelligent processor that provides inbuilt A/D converter, and Self-Diagnosis and History log.

EN 54-5
1330C(cl-1)

0832-CPR-F1704
Y17

TECHNICAL SPECIFICATIONS	
Standard	EN54-5 :2000 +A1:2002
Input Voltage	24VDC [16V to 28V]
Current Consumption	Standby 0.6mA, Alarm: 4mA
Protocol/Addressing	T&A, Value range from 1 to 254
Heat Class Type	A1R
Indicator	Single LED / 360 degree Visual
Material / Color	ABS / White Glossy finishing
Dimension / Height	Diameter 99.7 mm / 57 mm
Weight	127g (with Base), 72g (without Base)
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Non condensing

Intelligent Smoke & Heat Detector

IGN-7403

The IGN-7403 Intelligent Addressable Optical Smoke & Heat Detector is the ideal device for most applications, due to its spiffing linear response to a wide variety of different types of smoke patterns and combining with heat sensing sensor for temperature response. The unit manufactured base on the sensitivity requirement of EN 54 part 29, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit incorporates an intelligent processor that provides Algorithm map, inbuilt A/D converter, Drift compensation, and Self-Diagnosis and History log.

TECHNICAL SPECIFICATIONS	
Standard	EN54-29
Input Voltage	24VDC [16V to 28V]
Current Consumption	Standby 0.6mA, Alarm: 4mA
Protocol/Addressing	T&A, Value range from 1 to 254
Smoke Sensitivity	As per stipulated standard
Heat Class Type	A2R
Indicator	Single LED / 360 degree Visual
Material / Color	ABS / White Glossy finishing
Dimension / Height	Diameter 99.7 mm / 57 mm
Weight	145g (with Base), 90g (without Base)
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Non condensing

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Beam Detector

IGN-C7404

IGN-C7404 Reflective Beam Detector has built in Laser beam pointing and Digital guide display for real user friendly alignment method. The Laser beam pointing accurately point the exact location where to mount mirror and with additional digital guide display allows to monitor and guide on the actual light intensity between the mirror and detector which cannot be seen by our naked eye making it more easy and convenient in alignment commissioning.

EN 54-5
1330C(cl-1)

CE
0832-CPR-F1704
Y17

Features

- EN54-12 Certified
- Hassle free alignment, built with digital guide display and laser beam pointing
- Employ single-ended design through reflective mirror
- Four ranges wide monitoring from 8-100 meters via encoder
- Three users programing sensitivity adjustment
- Built-in microprocessor
- Self-diagnosis function can monitor for internal faults
- Automatic compensation for factors weakening received signals, such as dust contamination, positional movement and ageing of the transmitter
- Fire and Fault interfacing relays
- Attractive and pleasing appearance
- Real User friendly alignment method

TECHNICAL SPECIFICATIONS	
Standard	EN54-12:2002
Operating Voltage	20 V to 28 V DC
Current Parameters	Standby:23mA Commission:56mA Alarm:33mA
Beam Sensor Sensitivity [via Encoder]	Level 1: 2.6 dB High Sensitivity
	Level 2: 3.8 dB Medium Sensitivity
	Level 3: 5.8 dB Low Sensitivity
Beam Pathway Length [via Encoder]	Span 1: 8 to 20 meters Short Path (1x mirror reflector required)
	Span 2: 20 to 40 meters Short Path (1x mirror reflector required)
	Span 3: 40 to 70 meters Normal Path (4x mirror reflector required)
	Span 4: 70 to 100 meters Long Path (4x mirror reflector required)
Beam Path Angle	±0.5° Directional
Alignment Guide	Laser Beam Pointer
Digital Display Guide	Nixie Tube
LED Indicator Guide	Red: Fire; Yellow: Fault; Green: Alignment
Reset Time	Less than 2 Second (Power Cut)
Relay Capacity [Fire & Fault]	Normally Open/ 2.0 A; 30 VDC
Material / Color	ABS / White
Dimension / Weight	L:190.87 x W:126.87 x H:91.96 mm / 440 gm
Weight	0.130 Kg with base
Accessories	Mounting Bracket/ IGN-C7404R 4 x Mirror Reflector
Operating Temperature / Protection Rating	-10°C to 55°C / IP30 [IP66 glue seal-For permanent fixing]
Humidity	0 to 95% Relative Humidity, Non condensing

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Addressable Sounder Strobe

AVI-6401

EN 54-5
1330C(cl-1)

0832-CPR-F1704
Y17

The Addressable Sounder & Strobe are alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit adopt multi-application device starting from the types, parameters and wiring layout in single unit. The AVI-6401 can change into different alarm warning types such as sounder-strobe type, sounder type or strobe type using programming tool. In addition, parameters can be configured according to the requirement which include alarm tone from 17 different tones, single address or dual address mode and also setting of power mode to low current consumption in a simple programming.

AVI-6401

TECHNICAL SPECIFICATIONS	
Standard	EN54-3:2001+A1:2002 + A2:2006
Input Voltage	Loop Power: 24VDC [18V to 27.5V] External PSU: 24 VDC [20V to 27.5V]
Typical Current	Loop: Standby 0.6mA, Alarm: 1.5mA External PSU: Standby 0.6mA, Alarm: 15mA
Saving Current	Standby 1.2mA, Alarm: 9mA
Protocol/Addressing	T&A, Value range from 1 to 254
Tones	17 Tones (refers to Manual)
Address Sequence	Single Address: Evacuate tone
Dual Address:	1st Alert Tone / 2nd Evacuate tone
Strobe Light	10 Highlights LED
Material / Color	ABS / Red Glossy finishing
Dimension	Diameter 110 mm / 39.6 (with Base)
Weight	176g (with Base), 110g (Without Base)
Ingress Protection Rating	IP21
Class	Type A, Indoors
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Noncondensing

Features

- EN54-3:2001+A1:2002 + A2:2006 Compliance
- Built-in MCU processor and digital addressing
- 17 tones Programmable sound output
- Programmable types such as Sounder-Strobe, Sounder or Strobe alone
- Programmable Evacuate or Pre-alarm/Evacuate signal
- Low and normal consumption mode
- One or Two addresses mode
- 10 Highlights LED status cluster
- Onsite Adjustable Parameters
- Loop or external power input
- Aesthetically pleasing design
- Universal mounting with fix base for simple installation

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Addressable Sounder

AVI-6402

The AVI-6402 Addressable Sounder Strobe is alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit adopt multi-application device starting from the types, parameters and wiring layout in single unit. The AVI-6402 can change into different alarm warning types such as sounder-strobe type, sounder type or strobe type using programming tool. In addition, parameters can be configured according to the requirement which include alarm tone from 17 different tones, single address or dual address mode and also setting of power mode to low current consumption in a simple programming.

AVI-6402

Features

- EN54-3 Compliance
- Built-in MCU processor and digital addressing
- 17 tones Programmable sound output
- Programmable Evacuate or Pre-alarm/ Evacuate signal
- Low and normal consumption mode
- One or Two addresses mode
- Onsite Adjustable Parameters
- Loop or external power input
- Aesthetically pleasing design
- Universal mounting with fix base for simple installation

TECHNICAL SPECIFICATIONS	
Standard	EN54-3
Input Voltage	Loop Power: 24VDC [18V to 27.5V] External PSU: 24 VDC [20V to 27.5V]
Typical Current	Loop: Standby 0.6mA, Alarm: 1.5mA External PSU: Standby 0.6mA, Alarm: 10mA
Saving Current	Standby 1.2mA, Alarm: 4mA
Protocol/Addressing	T&A, Value range from 1 to 254
Tones	17 Tones (refers to Manual)
Address Sequence	Single Address: Evacuate tone
Dual Address:	1st Alert Tone / 2nd Evacuate tone
Material / Color	ABS / Red Glossy finishing
Dimension	Diameter 110 mm / 39.6 (with Base)
Weight	180g (with Base), 114g (Without Base)
Ingress Protection Rating	IP21
Class	Type A, Indoors
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Noncondensing

Intelligent Sounder Strobe

AVI-6403

The AVI-6403 Intelligent Sounder Strobe is alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit adopt multi-application device starting from the types, parameters and wiring layout in single unit. The AVI-6403 can change into different alarm warning types such as sounder-strobe type, sounder type or strobe type using programming tool. In addition, parameters can be configured according to the requirement which include alarm tone from 17 different tones, single address or dual address mode and also setting of power mode to low current consumption in a simple programming.

AVI-6403

Features

- EN54-3 Compliance
- Built-in MCU processor and digital addressing
- 17 tones Programmable sound output
- Programmable types such as Sounder-Strobe, Sounder or Strobe alone
- Programmable Evacuate or Pre-alarm/Evacuate signal
- Low and normal consumption mode
- One or Two addresses mode
- 10 Highlights LED status cluster
- Onsite Adjustable Parameters
- Loop or external power input
- Aesthetically pleasing design
- Universal mounting with fix base for simple installation

TECHNICAL SPECIFICATIONS	
Standard	EN54-3
Input Voltage	Loop Power: 24VDC [18V to 27.5V] External PSU: 24 VDC [20V to 27.5V]
Typical Current	Loop: Standby 0.6mA, Alarm: 1.5mA External PSU: Standby 0.6mA, Alarm: 17mA
Saving Current	Standby 1.2mA, Alarm: 9mA
Protocol/Addressing	T&A, Value range from 1 to 254
Address Sequence	Single Address: Evacuate tone
Dual Address:	1st Alert Tone / 2nd Evacuate tone
Strobe Light	10 Highlights LED
Material / Color	ABS / Red Glossy finishing
Dimension	L:152.5 x W:88.5 x H46.75 mm (without Base)
Weight	184g (with Base), 124g (Without Base)
Ingress Protection Rating	IP21
Class	Type A, Indoors
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Noncondensing

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Loop Passive Repeater

IGN-5096

IGN-5096

IGN-5096 LCD Repeater Panel is designed with built-in MCU processor to display exact fire event messages from the control panel and fast relay response with simultaneous audible and visual signal output. This repeater panel can also program to limit the zone display from All Zones into a particular zone or three adjacent zones through the panel key buttons. The unit is connected through the communication loop of IGN Intelligent control panel along with the devices and can install up to 254 units per loop. The repeater panel can be used whenever there is a need to relay information to multipoint informing key personnel.

TECHNICAL SPECIFICATIONS	
Standard	EN 54-2: 1997+A1: 2006
Input Voltage	Loop Power: 24VDC [16V to 28V] External PSU: 24 VDC [20V to 28V]
Current Consumption	Loop: Standby 1mA, Alarm: 1.2mA External PSU: Standby 25mA, Alarm: 80mA
Memory Capacity	Up to 300 fire event history
Number per loop	Up to 254 units (ideal)
Material / Color	ABS / White Glossy finishing
Dimension	180mm x 110 mm x44 mm
Weight	300g (with Base), 256g (without Base)
Operating Temperature	0°C to + 40°C
Humidity	0 to 95% Relative Humidity, Noncondensing

Features

- EN54-2 Compliance
- Loop Fire display passive repeater panel
- Built-in MCU processor and digital addressing
- Fast response of audible and visible signal from the panel
- Direct access common keys such as MUTE, UP, DOWN and BROWSE.
- Programmable Zone Display such as All Zone, Single Zone and Three Adjacent Zone
- LED status indicator
- Onsite Adjustable Parameter
- Loop sited wiring with external 24V supply
- Compact size and aesthetically pleasing design
- Surface mounting with fix base for simple installation

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Addressable Input Module

IM-8410

The IM-8410 Addressable Input Module is used to acknowledge normally open monitor signal from interface equipment then sending communication signal to the control panel, ideally for monitoring sprinkler system, pressure switch, position switch, signal valves and other third party equipment such as conventional panel.

IM-8410

Features

- EN54-18 Compliance
- Built-in MCU processor and digital addressing
- Fire or Supervisory signal configuration
- Input cable monitored
- Normally open configuration
- LED status indicator
- Loop powered device
- Aesthetically pleasing design
- Surface mounting with fix base for simple installation

TECHNICAL SPECIFICATIONS	
Compliance	EN54-18:2005/AC2007
Input Voltage	24VDC [16V to 28V]
Current Consumption	Standby 0.6mA, Alarm: 1.0mA
Protocol/Addressing	T&A, Value range from 1 to 254
Input Relay	Normally Open dry contact
Input Resistance	5.1Kohms/ ¼ W
Indicator Status	Normal: Single blink/Active: Steady/Fault: Double Blink
Material / Color	ABS / White Glossy finishing
Dimension	108 mm x 86 mm x38 mm
Weight	155g (with Base), 85g (without Base)
Class	Type A, Indoors
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Non condensing

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Addressable Single Input / Output Module

IM 8412

EN 54-5
1330C(cl-1)

0832-CPR-F1704
Y17

The IM 8412 Addressable Single Input/output Module is characterized as one input or output volt free relay and control module. The unit is normally used for overriding equipment such as lift return, door holder, smoke extract fans, air handling unit, auto dialler to fire brigade, BMS and etc. The unit has built-in feedback signal feature, according to the pre-configured interface module command fire scenario, the alarm controller send out start command to the equipment required to start. After receiving the command, output module enables its relay to change state. Once the module is under control and operated a confirmation signal will be sending back to the alarm controller. In addition, the unit incorporates an intelligent processor that provides automatic monitoring for both open and short circuit of the input signal line.

TECHNICAL SPECIFICATIONS	
Standard	EN54-18:2005
Input Voltage	Loop Power:24VDC [16V to 28V] External PSU: 20 to 28VDC
Current Consumption	Standby 0.6mA, Alarm: 1.6mA External PSU: Standby 0.6mAAlarm: 45mA
Control Output Voltage	24VDC / 2A rating
Protocol/Addressing	T&A, Value range from 1 to 254
Input Relay	Normally Open dry contact
Input Resistance	5.1Kohms/ ¼ W
Indicator Status	Normal: Single blink/Active: Steady/Fault: Double Blink
Material / Color	ABS / White Glossy finishing
Dimension	108 mm x 86 mm x38 mm
Weight	170g (with Base), 92g (without Base)
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Noncondensing

Features

- EN54-18:2005 Compliance
- LPCB Approved
- Built-in MCU processor and digital addressing
- 24Vdc/3A Output relay contact and Control module
- Input Fire or Supervisory signal configuration
- LED status indicator
- Onsite Adjustable Parameter
- Loop or external power input
- Aesthetically pleasing design
- Surface mounting with fix base for simple installation

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Addressable Dual Input / Output Module

IM 8413

The IM-8413 Addressable Dual Input/output Module is characterized as two inputs or outputs volt free relay and control module. The unit is normally used for overriding equipment such as lift return, door holder, smoke extract fans, air handling unit, auto dialler to fire brigade, BMS and etc. The unit has built-in feedback signal feature, according to the pre-configured interface module command fire scenario, the alarm controller send out start command to the equipment required to start. After receiving the command, output module enables its relay to change state. Once the module is under control and operated a confirmation signal will be sending back to the alarm controller. In addition, the unit incorporates an intelligent processor that provides automatic monitoring for both open and short circuit of the input signal line.

IM 8413

Features

- EN54-18 Compliance
- Built-in MCU processor and digital addressing
- Two circuits 24Vdc/3A Output relay contact and Control module
- Two circuits Input Fire or Supervisory signal configuration
- Dis/Enable Input and output cable monitored
- LED status indicator
- Onsite Adjustable Parameter
- Loop or external power input
- Aesthetically pleasing design
- Surface mounting with fix base for simple installation

TECHNICAL SPECIFICATIONS	
Standard	EN54-18:2005/AC2007
Input Voltage	Loop Power:24VDC [16V to 28V]; External PSU: 20 to 28VDC
Current Consumption	Standby 0.6mA, Alarm: 1.6mA External PSU: Standby 0.6mA; Alarm: 45mA
Control Output Voltage	24VDC / 3A rating (per circuit)
Protocol/Addressing	T&A, Value range from 1 to 254
Input Relay	Normally Open dry contact
Input Resistance	5.1Kohms/ ¼ W
Indicator Status	Normal: Single blink/Active: Steady/Fault: Double Blink
Material / Color	ABS / White Glossy finishing
Dimension	108 mm x 86 mm x38 mm
Weight	182g (with Base), 100g (without Base)
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Noncondensing

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Isolator Module

IM 8414

The IM-8414 manufactured base on the requirement of EN 54 part 17, European Standard. In the event of short circuit on the detection loop the IM-8414 Isolators either side of the loop will detect the problem and open circuit and isolates the faulty part of the loop, enabling other devises on the unaffected part of the loop to operate normally. The module will continue to monitor for the fault to be repaired, once the fault is cleared the isolator will automatically reinstate the effected part of the loop.

IM 8414

0832-CPR-F1831
Y17

EN54-11
1330f(cl-1)

Features

- EN54-17:2005 Compliance
- LPCB Approved
- In the event of a short circuit isolates faulty parts of the loop.
- Automatically resetting once the fault has been cleared
- Can monitor up to 70 devices
- LED status indicator
- Loop powered device
- Aesthetically pleasing design
- Surface mounting with fix base for simple installation

TECHNICAL SPECIFICATIONS	
Standard	EN54-17:2005
Input Voltage	24VDC [16V to 28V]
Current Consumption	Standby 0.15mA, Alarm: 1.8Ma
Maximum Open Voltage (V SO MAX)	11V
Minimum Open Voltage (V SO MIN)	8V
Maximum Close Voltage (V SC MAX)	3V
Minimum Close Voltage (V SC MIN)	1.4V
Maximum Continuous Current (I C MAX)	500mA
Maximum Transient Output Current (I S MAX)	5mA
Maximum Leakage Current (I L MAX)	2mA
Max closed impedance (Z C MAX)	0.65ohms
Protocol/Addressing	T&A
Number of monitored	Max 70 Devices
Output Impedance	480 ohms
Indicator Status	Indicator Status Normal: Single blink/ Active: Steady-on
Material / Color	ABS / White Glossy finishing
Dimension	108 mm x 86 mm x38 mm
Weight	152g (with Base), 81g (without Base)
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Noncon-densing

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Addressable Zone Monitor Module

IM 8411

IM-8411 Addressable Zone Monitor unit is an addressable interface module, which will integrate conventional detectors or conventional manual call points to addressable system. When any of the connected devices alarms are active, the unit can send the alarm message to fire alarm controller, which generates alarm signal and displays its address. The unit can match with the conventional optical smoke detector, conventional rate of rise and fixed temperature detector and conventional manual call point etc. It has the function of checking short or open circuit of the output connection, by the End of Line Resistor (EOLR). The fault massage includes open circuit, short circuit or any removal of the detectors.

Features

- EN54-18 Compliance
- Built-in MCU processor and digital addressing
- Intelligent self-diagnosis of open circuit
- Enhanced capacity of interference resistance by using multilevel wave filtering process
- LED status indicator
- Onsite Adjustable Parameter
- Loop and external power input
- Aesthetically pleasing design
- Parallel connecting up to 16 conventional detector
- Unit mounting with fix base for simple installation

IM 8411

TECHNICAL SPECIFICATIONS	
Standard	EN54-18:2005/AC2007
Input Voltage	Loop Power: 24VDC [18V to 28V] External PSU: 24 VDC [20V to 28V]
Current Consumption	Loop: Standby 1.3mA, Alarm: 5mA External PSU: Standby 10mA, Alarm: 60mA
Control output voltage	24VDC (Only for the use of IGN-C7404 do not allow the short circuit)
End of line Resistance	5.1Kohms/ ¼ W
Protocol/Addressing	T&A, Value range from 1 to 254
Indicator Status	Normal: Single blink/Active: Steady/Fault: Double Blink
Material / Color	ABS / White Glossy finishing
Dimension	108 mm x 86 mm x38 mm
Weight	154g (with Base), 83g (without Base)
Ingress Protection Rating	IP30
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Noncondensing

IGN SERIES ADDRESSABLE

Fire Alarm & Detection System

Power Supply Unit

Features

- EN54-4 Compliance
- Intelligent 5A Power supply unit
- Can sit on the loop to monitor by the Fire control panel
- Digital display showing output voltage and load current
- Overload, overcharge and over usage protection
- Fully Monitored with Self-test function
- Wall mount

MODEL	7090-0500	7096-0600
Standard	EN 54-4	
Power Supply		
Backup	24VDC/12Ah sealed lead-acid battery (Not included)	
Output Power	120W (24VDC/5A)	240W (24VDC/10A)
Protocol/Addressing	T&A, Value range from 1 to 254	
Mains and backup switching time	No delay	
Indicator	Numerical Display	
Material / Color	Flat sheet Metal / Light Gray	
Dimension	400mm x 320mm x 120mm	
IP Grade	IP30	
Temperature	-10℃~+60℃	
Relative Humidity	≤95%, non-condensing	
Atmosphere	86~106KPa	

Handheld Programmer

7096-0400

The 7096-0400 is the general purpose programming tool use for IGN Series family products. This unit is designed to suit for entering device parameters such as address, sensitivity, mode and types to meet the site situation and environmental requirements. In addition, the programmer is capable to read the previous encoded parameters to use for testing application and troubleshooting purposes.

The 7096-0400 is miniature and robust design makes it convenient to bring in the work place. The programmer is packed with twin 1.5V AA battery and cable, ready for usage once received. Easy to understand the display and with functional keys allow easy single-button activation of the common used parameters.

TECHNICAL SPECIFICATIONS	
Battery Required	2X1.5 AA / Included
Current Consumption	Standby 0µA, In-use: 3mA
Protocol	T&A
Material / Color	ABS / Grey Glossy finishing
Dimension	130 mm x 54 mm x28 mm
Relative Humidity	0 to 95% Relative Humidity, Non condensing

Features

- Write, read and erase device parameters
- Pluggable cable with end alligator clip to hold tight the terminals
- LCD display and functional keys
- Low current consumption for longer battery lifespan
- Circuit protection against clip
- Auto power-off within 5 minutes

CONVENTIONAL

Fire Alarm & Detection System

1174e-(cl-2)

Fire Alarm Control Panel

Fire Alarm Control Panels are the main the controlling units of fire detection and alarm systems. Fire Alarm Control Panels receive information from sensors designed to detect changes associated with fire so that when preset thresholds are met, alarm devices are activated. BRISTOL Fire Alarm Control Panels are known for its quality and reliability.

Features

- High and reliable operation performance.
- Conventional panel series available for 2/4/8/49 detection zones.
- Fully programmable using simple menu options
- Up to 25 devices for each zone including detector and manual call point
- Compatible with wide range of conventional devices
- Keypad entry to a wide range of engineering functions, including self-test, zone test, zone delay, non-latching zone, evacuation override
- Manual settable between DAY and Night mode
- LED indications available for short or open circuit of detection zone, sounder circuit and fire alarm outputs
- Fault buzzer mute facility
- Up to four programmable supervised sounder circuits
- Reserved repeater panel interface for fire alarm indication of multiple zones
- Three access levels settable via a key switch and internal switch
- 2-wire system to reduce installation cabling and installer friendly
- LPCB Approval in compliance with EN54-2 and EN54-4

Technical Data

MODEL	B61-801/02	B61-801/04	B61-801/08	B61-801/16
Standard	EN 54-2 / EN 54-4			
Zones	2	4	8	16
Power Supply	220V / 230 VAC / AC110V			
Battery Size	7Ah / 12V			
Frequency	50 / 60Hz			
Input Current	0.35A			
Loop Voltage	$15V_{DC}$ ~ $28V_{DC}$, 300mA			
Sounder Circuit	15VDC-28VDC, 300mA			
Fault Output	Volt-free 1A/$24V_{DC}$			
Auxiliary Power Output	$15V_{DC}$ ~ $28V_{DC}$, Standby 20mA and Action 500mA			
Temperature	0ºC ~ 40ºC			
Humidity	≤ 95%, non-condensing			
Dimension	430*330*105mm			
Installation	Wall-mounted			
Cable	1.5mm² or above shield cable			

CONVENTIONAL

Fire Alarm & Detection System

Manual Call Point

1174d-(cl-3)

Bristol Manual Call Points are fully compatible with most of the existing conventional systems. Red, yellow, blue, and green finishing are available.

FEATURES

- Transparent plastic window on the front for activation
- No glass breaking activation
- Resettable by a special key
- LED indicator provides the status of device.
- Available for installation of either wall-mount or flush – mount.
- Compatible with a wide range of conventional panel or interface.
- LPCB approval in compliance with EN54-11.

MODEL	B61-5101
Operating Voltage	12VDC ~ 28VDC
Standby Current	≤0.5mA
Alarm Current	≤20mA (equivalent resistance is 470 / 1W)
LED indicator	Red, Illuminating when alarm fire
Wiring	Two-wire
Class	Type A, indoor use
Ingress Protection Rating	IP43
Temperature	-10ºC ~ + 55ºC
Humidity	≤95%, non-condensing
Material Enclosure	ABS
Dimensions	(LxWxH): 88mm x 88mm x 58mm (w/ back box) (LxWxH): 88mm x 88mm x 23mm (w/out back box)
Weight	About 160g (w/ back box) About 107g (w/out back box)

Fire Alarm Bell

506e-(cl-2)

0197

Bristol Fire Alarm Bells have low power consumption and long operating life.

FEATURES

- Electricity insulating base
- Can accept 2.5mm terminal cables
- Fitted with 2 series diodes for fault monitoring
- EN-54-3

MODEL	BF-AB-0418
Voltage	$24V_{DC}$
Current	25mA
Sound Output	93dB @ 1m
Movement	Motor, Pinion and Striker
Movement Feature	DC Motor, Acetral Gear Wheel, Steel Striker
Material	Steel Plate
Base Plate	Molded Black Polycar-bonate
Dimensions	Ø6" (152mm) x 58mm (H)
Weight	≈850g

Conventional Sounder Strobe

Electronic Sounder and Beacons are audio-visual devices suitable for places where high sound output and visual indication is required.

1174c-(cl-3)

MODEL	B61-6301
Operating Voltage	20VDC ~ 28VDC
Alarm Current	≤35mA
Flashing Frequency	1.4 x (1± 20%) Hz
Ingress Protection Rating	IP21C
Temperature	-10ºC ~ + 50ºC
Humidity	≤95%, non-condensing
Material Enclosure	ABS
Dimensions	(LxWxH): 152mm x 91mm x 49.5mm
Weight	About 210g

FEATURES

- Alert Sound and flash combined in one unit
- A select of 16 different tones
- Using ultra bright LEDs as source for light indication
- Fully synchronized operating frequencies and LED beacon
- Low power consumption
- Plug-in structure design for easy installation
- Compatible with a wide range of conventional panel or interface

CONVENTIONAL

Fire Alarm & Detection System

Detectors

Detectors are equipment designed to monitor presence of fire which is manifested by heat and smoke. Heat detectors can be classified as fixed-temperature, rising-heat or combination of both while smoke detectors work either by optical detection or by ionization. BRISTOL Detectors are designed with great regard to quality and comply to international and local standards.

1174a-(cl-3)

MODEL	B61-1001
Operating Voltage	9VDC ~ 28VDC
Quiescent Current	≤60uA
Alarm Current	10mA ≤I ≤ 50mA
LED indicator	Red, flashing every 2s ~ 4s when standby; Illuminating when alarm fire
Remote indicator output	10kΩ resistor is required
Power-Up Time	≤ 10s
Wiring Method	Polarized two-wire
Ingress Protection Rating	IP32
Temperature	-10ºC ~+ 55ºC
Humidity	≤95%, non-condensing
Material Enclosure	ABS
Dimension	Diameter: 100mm, Height: 43mm (w/out base)
Weight	About 120g

Conventional Smoke Detectors

Optical Smoke Detector are activated when smoke particles enter the light path, and some of the light is scattered by reflection and refraction onto the sensor. The light signal is processed and used to convey an alarm condition when it meets the preset criteria.

Features

- Intelligent drift compensation to the variation of external environment (temperature, humidity, dust, static) Can accurately detect the chronic fire happened in 24 hours
- Intelligent algorithm and judgment, warning reminder for dirty and cleaning
- Filter designed in both software and hardware, enhance the ability of anti-interference
- PCB board inside is sealed with full protection
- Unique chamber design for protection against dust, insects and other external interferences
- Talented design of structure without a single screw
- Compatible with a wide range of conventional panel or interface

CONVENTIONAL

Fire Alarm & Detection System

1174b-(cl-3)

Conventional Heat Detectors

Conventional Dual Heat Detectors respond either when the detecting element reaches a predetermined fixed temperature or to a specified rate of temperature change.

Features

- Filter designed in both software and hardware, enhance anti-interference ability.
- PCB board onside is sealed with full protection.
- Use thermal sensor with high sensitivity, enhance quick response to variation of temperature.
- Talented design of structure without a single screw.
- Compatible with a wide range of conventional panel or interface.
- LPCB Approval in compliance with EN54-5.

MODEL	B61-2001
Operating Voltage	9VDC ~ 28VDC
Quiescent Current	≤60uA
Alarm Current	10mA ≤I ≤ 50mA
LED indicator	Red, flashing every 2s ~ 4s when standby; Illuminating when alarm fire
Remote indicator output	10kΩ resistor is required
Power-Up Time	≤ 10s
Class	A1R
Wiring Method	Polarized two-wire
Ingress Protection Rating	IP32
Temperature	-10ºC ~+ 55ºC
Humidity	≤95%, non-condensing
Material Enclosure	ABS
Dimension	Diameter: 100mm, Height: 43mm (w/out base)
Weight	About 120g

CONVENTIONAL

Fire Alarm & Detection System

LPCB
506b-(cl-2)

CE
AE 50205180 0001
AE 50305250 0001
AE 50203154 0001

Multi Sensors

Bristol Combined Heat and Smoke Detectors are combination of fixed-temperature and photo-electric smoke detection and are fully compatible with most of the existing conventional systems. 2-Wire, 3-Wire, and 4-Wire configurations are available.

Features

- Improved dust protection and detection accuracy
- Dual LEDs for 360-degree visibility
- Low current consumption and wide voltage range
- Bases fitted with shorting spring to permit easy maintenance

Technical Specifications

MODEL	BF-SH-0115-2	BF-SH-0115-3	BF-SH-0115-4
Wiring Configuration	2-Wire	3-Wire with Remote Indicator Output	4-Wire with Relay Output
Standard	EN 54-5 / EN 54-7		
Voltage Range	12-30V_{DC}		
Standby Current	55μA		
Alarm Current @ 24V_{DC}	40mA	30mA	40mA
Thermal Setting	58°C		
Response Grade	Comply to EN54, Grade 1		
Ambient Temperature	-10°C to 55°C		
Material	Fire-Proof Plastic		
Dimensions	102mm(Dia)x58mm(H)		
Weight	155g	157g	165g
Color	White		

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