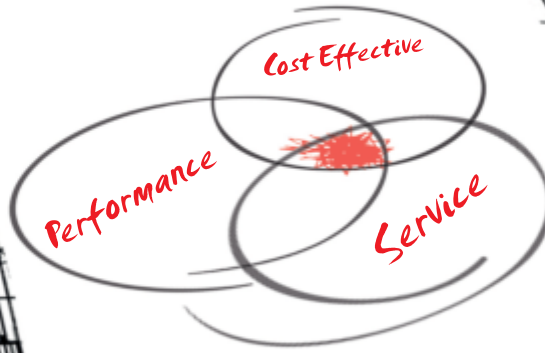




- ▶ FIRE ALARM SYSTEM
- ▶ GAS ALARM SYSTEM
- ▶ ACCESS CONTROL SYSTEM
- ▶ EMERGENCY ANNOUNCEMENT SYSTEM
- ▶ EMERGENCY LIGHTING SYSTEM
- ▶ PARKING GARAGE CO SYSTEM
- ▶ WATER-LEAKAGE ALARM SYSTEM
- ▶ INTRINSICALLY SAFE SYSTEM
- ▶ BSM INTEGRATION SYSTEM
- ▶ AMC REMOTE MONITORING SYSTEM



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100 SERIES

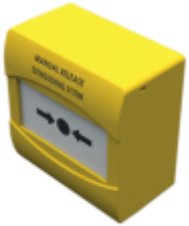
CONVENTIONAL FIRE ALARM SYSTEM



Conventional Fire Alarm Call Point FF CP100

- ▶ Resetable
- ▶ LED indicator
- ▶ Suitable for all types of systems
- ▶ Optional transparent cover
- ▶ Suitable for flush and surface mounting

Dedal



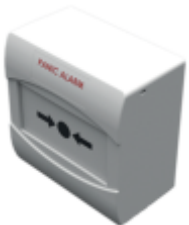
Conventional Release Call Point FF CP100-Y

- ▶ Resetable
- ▶ LED indicator
- ▶ Suitable for all types of systems
- ▶ Optional transparent cover
- ▶ Suitable for flush and surface mounting



Conventional Abort Call Point FF CP100-B

- ▶ Resetable
- ▶ LED indicator
- ▶ Suitable for all types of systems
- ▶ Optional transparent cover
- ▶ Suitable for flush and surface mounting



Conventional Emergency Call Point FF CP100-W

- ▶ Resetable
- ▶ LED indicator
- ▶ Suitable for all types of systems
- ▶ Optional transparent cover
- ▶ Suitable for flush and surface mounting



Conventional Smoke Vent Call Point FF CP100-O

- ▶ Resetable
- ▶ LED indicator
- ▶ Suitable for all types of systems
- ▶ Optional transparent cover
- ▶ Suitable for flush and surface mounting



Conventional Access Call Point FF CP100-G

- ▶ Resetable
- ▶ LED indicator
- ▶ Suitable for all types of systems
- ▶ Optional transparent cover
- ▶ Suitable for flush and surface mounting



Dedal

Electronic Sounder and Beacon FF ESF101

- ▶ 24V DC, 30.1mA current consumption
- ▶ Fire resistant housing
- ▶ Maximum performance with 12 LEDs
- ▶ 4 tones option
- ▶ EN54-3 Standard
- ▶ Shallow base IP43
- ▶ Deep base IP65 versiyon
- ▶ Base locking system



Dedal

Electronic Sounder FF ES101

- ▶ 24V DC, 10.6mA current consumption
- ▶ 4 tones option
- ▶ Fire resistant housing
- ▶ EN54-3 Standard
- ▶ Shallow base IP43
- ▶ Deep base IP65 versiyon
- ▶ Base locking system



Dedal

Electronic Sounder and Beacon FF ESF102

- ▶ 24V DC, 37.7mA current consumption
- ▶ 0.5Hz or 1Hz version
- ▶ 32 tones option
- ▶ 3 sound levels
- ▶ EN54-3 and EN54-23 Standard
- ▶ Shallow base IP43
- ▶ Deep base IP65 versiyon
- ▶ Base locking system



Dedal

Electronic Beacon FF EF102

- ▶ 24V DC, 20mA current consumption
- ▶ 0.5Hz or 1Hz version
- ▶ EN54-23 Standard
- ▶ Shallow base IP43
- ▶ Deep base IP65 versiyon
- ▶ Base locking system



Dedal

Electronic Sounder FF ES103

- ▶ 85-265V AC operating range
- ▶ 4 tones option
- ▶ EN54-3 Standard
- ▶ Shallow base IP43
- ▶ Deep base IP65 versiyon
- ▶ Base locking system

100 SERIES CONVENTIONAL FIRE ALARM SYSTEM



**Conventional Fire Panel
FF CF104 / FF CF108**

- ▶ 4-8 Zone
- ▶ Siren Output for Each Zone
- ▶ 2 General Alarm Siren Output
- ▶ 1 Alarm Relay and 1 Fault Relay Output
- ▶ 3 Level User Password
- ▶ Evacuation Alarm
- ▶ Walk Test
- ▶ EN54-2 and EN54-4 Standard
- ▶ CPR Certified



**External Power Supply
FF PSU2405**

- ▶ 1x5A or 2x2,5A output
- ▶ 7Ah / 12Ah Battery support
- ▶ Short circuit and overload protection
- ▶ IP30 Protection
- ▶ EN54-4 Standard



**Conventional Optical Smoke Detector
FF O100**

- ▶ Aesthetic Design
- ▶ EN54-7 Standard
- ▶ CPR Certified



**Duct Type Detector Housing
FF DC100**

- ▶ Addressable and Conventional Detector compatible



**Conventional Heat Detector
FF T100**

- ▶ Aesthetic Design
- ▶ EN54-5 Standard
- ▶ CPR Certified



**Beam Detector
TX 7130**

- ▶ Wide coverage
- ▶ 5-100 m range
- ▶ Detector sensitivity adjustable
- ▶ 9.5-28V / 8-30mA
- ▶ EN54-12 Standard
- ▶ LPCB Approved
- ▶ CPR Certified



**Battery Powered Smoke Detector
FF POD**

- ▶ Low battery signal
- ▶ Test button
- ▶ EN 14604 Standard
- ▶ CE Certified



**Detector Buzzer Socket
FF BS200BB**

- ▶ 75dB / 3m sound level
- ▶ 5mA alarm



**Parallel Remote Indicator LED
FF LED**

- ▶ Suitable for wall and ceiling mounting
- ▶ Suitable for recessed and surface mounting



**Smoke & Heat Detector Tester
FF SMOKE-T**

- ▶ One charge 300 smoke detector test
- ▶ One charge 100 heat detector test
- ▶ Provides faster response time for alarm



200 SERIES ADDRESSABLE FIRE ALARM SYSTEM



Intelligent Addressable Optical Smoke Detector FF O200A / FF O200AL

- ▶ Up to 240 devices can be installed on a loop
- ▶ DRC® dust restrict technology
- ▶ Short-circuit isolators in each device
- ▶ EN54-7 and EN54-17 Standard
- ▶ LPCB Approved



Intelligent Addressable Relay Output Module FF MC220

- ▶ 1 output relay
- ▶ Short circuit isolator
- ▶ EN54-18 and EN54-17 Standard
- ▶ VDS Approved



Intelligent Addressable Heat Detector FF T200A / FF T200AL

- ▶ Up to 240 devices can be installed on a loop
- ▶ Short-circuit isolators in each device
- ▶ Independent remote output
- ▶ EN54-5 and EN54-17 Standard
- ▶ LPCB Approved



Intelligent Addressable Input Module FF MI200

- ▶ 1 input
- ▶ Short circuit isolator
- ▶ EN54-18 and EN54-17 Standard
- ▶ VDS Approved



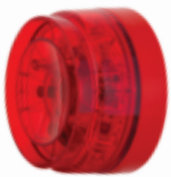
Intelligent Addressable Optical Smoke and Heat Detector FF OT200A / FF OT200AL

- ▶ Up to 240 devices can be installed on a loop
- ▶ DRC® dust restrict technology
- ▶ Short-circuit isolators in each device
- ▶ EN54-5, EN54-7 and EN54-17 Standard
- ▶ LPCB Approved



Intelligent Addressable Output Module FF MC200

- ▶ 1 output
- ▶ Short circuit isolator
- ▶ 24V Powered
- ▶ EN54-18 and EN54-17 Standard
- ▶ VDS Approved



Intelligent Addressable Electronic Sounder and Beacon FF ESF101BAD

- ▶ Aesthetic design, Lockable base
- ▶ Shallow and deep base options
- ▶ Maximum performans with 12 LEDs
- ▶ Maximum performans with special lens
- ▶ Selectable 4 tones / 0,5Hz and 1Hz options
- ▶ EN54-3 Standard



Intelligent Addressable Electronic Sounder and Beacon FF ESF100 + FF LX200

- ▶ 32 Tone Settings
- ▶ Two stage alarm capability
- ▶ Weatherproof as standard
- ▶ Microphone self test facility
- ▶ Robust and high reliability
- ▶ EN54-3, EN54-23 and EN54-17 Standard



Addressable Call Point FF VB200

- ▶ Surface mounted and flush mounted
- ▶ Resettable
- ▶ Short circuit isolator
- ▶ EN54-11 and EN54-17 Standard
- ▶ LPCB Approved



Intelligent Addressable Isolator Module FF LM100

- ▶ High reliability and low error margins
- ▶ Short circuit self isolator
- ▶ Full digital protocol
- ▶ Auto addressable
- ▶ Digitally double check of the addresses
- ▶ EN54-17 Standard

200 SERIES ADDRESSABLE FIRE ALARM SYSTEM



bsi.

Intelligent Addressable Fire Alarm Control Panel FF SYN1L-N

- ▶ 1 loop version
- ▶ 2 programmable sounder outputs
- ▶ 3 programmable relays
- ▶ Up to 64 panels network
- ▶ 1000 event logs
- ▶ BSI Approved (EN54-2 & EN54-4)
- ▶ 240 addressable devices for each loop
- ▶ Made in UK



bsi.

Intelligent Addressable Fire Alarm Control Panel HAES-1L

- ▶ 1 loop version
- ▶ 2 programmable sounder circuits
- ▶ 64 programmable groups
- ▶ 36 zonal LEDs
- ▶ BSI Approved (EN54-2 & EN54-4)
- ▶ 240 addressable devices for each loop
- ▶ Made in UK



bsi.

Intelligent Addressable Fire Alarm Control Panel FF SYN2L

- ▶ 2 loop version
- ▶ 2 programmable sounder outputs
- ▶ 3 programmable relays
- ▶ Up to 64 panels network
- ▶ 1000 event logs
- ▶ BSI Approved (EN54-2 & EN54-4)
- ▶ 240 addressable devices for each loop
- ▶ Made in UK



bsi.

Intelligent Addressable Fire Alarm Control Panel HAES-2L

- ▶ 2 loop version
- ▶ 2 programmable sounder circuits
- ▶ 64 programmable groups
- ▶ 36 zonal LEDs
- ▶ BSI Approved (EN54-2 & EN54-4)
- ▶ 240 addressable devices for each loop
- ▶ Made in UK



bsi.

Intelligent Addressable Fire Alarm Control Panel FF SYN4L

- ▶ 4 loop version
- ▶ 4 programmable sounder outputs
- ▶ 3 programmable relays
- ▶ Up to 64 panels network
- ▶ 1000 event logs
- ▶ BSI Approved (EN54-2 & EN54-4)
- ▶ 240 addressable devices for each loop
- ▶ Made in UK



bsi.

Intelligent Addressable Fire Alarm Control Panel HAES-4L

- ▶ 4 loop version
- ▶ 2 programmable sounder circuits
- ▶ 64 programmable groups
- ▶ 36 zonal LEDs
- ▶ BSI Approved (EN54-2 & EN54-4)
- ▶ 240 addressable devices for each loop
- ▶ Made in UK



Repeater Panel FF View

- ▶ Large graphic display
- ▶ Built-in buzzer
- ▶ 750mA
- ▶ Easy monitoring and intervention
- ▶ 24V DC or 230V AC options
- ▶ Made in UK



Repeater Panel HAES-R

- ▶ Large graphical display
- ▶ All events reported for entire network
- ▶ Remote control of evacuate, mute buzzer, silence and reset
- ▶ Externally powered from main control panel
- ▶ Programmable company logo
- ▶ Robust metal enclosure
- ▶ Made in UK



Network Card FF K555

- ▶ Supports up to 64 panels
- ▶ High protocol integration
- ▶ Fully secured against short circuits
- ▶ Easy monitoring and intervention
- ▶ Flexible configuration
- ▶ Made in UK



Network Card HAES-N

- ▶ Supports up to 64 panels
- ▶ High protocol integration
- ▶ Fully secured against short circuits
- ▶ Easy monitoring and intervention
- ▶ Flexible configuration
- ▶ Made in UK

200/500 SERIES WIRELESS FIRE ALARM SYSTEM



Wireless System Receiver / Transmitter VW2W100

- ▶ Dual antenna structure Horizontal/Vertical
- ▶ Dual communication protocol between receiver/transmitter
- ▶ 7 channels. Up to 32 connections
- ▶ Fire panel monitoring
- ▶ Easily programmable
- ▶ EN54-18, EN54-17 and EN54-25 Standard



Addressable Wireless Fire Alarm Panel FF FCP500-W

- ▶ 7" Color LCD Display
- ▶ 1/2 Wireless Loops
- ▶ 64/128 Points / Loop
- ▶ 40 Network Segments
- ▶ 2 Sounder Output
- ▶ Alarm- Fault Relay Output



Wireless Optical Smoke Detector SG 100 (L-OP-SG)

- ▶ Two-way communication between receivers
- ▶ 868Mhz frequency
- ▶ Up to 2 years battery life
- ▶ 7 channels
- ▶ High security protocol
- ▶ Intelligent addressable structure
- ▶ Easy setup and installation
- ▶ Double dust trap
- ▶ 360° view
- ▶ EN54-7 and EN54-25 Standard



Wireless Photoelectric Smoke Detector FF O500-W

- ▶ Battery CR17450 3V
- ▶ Frequency band 470MHz
- ▶ Two-way communication
- ▶ Radio frequency transmit power<20dBm
- ▶ Intelligent addressable structure
- ▶ Easy setup and installation
- ▶ 360° view



Wireless Addressable Heat Detector SG 350 (L-HT-SG)

- ▶ Two-way communication between receiver
- ▶ 868Mhz frequency
- ▶ Up to 2 years battery life
- ▶ 7 channels
- ▶ High security protocol
- ▶ Intelligent addressable structure
- ▶ Easy setup and installation
- ▶ Double dust trap
- ▶ 360° view
- ▶ EN54-5 and EN54-25 Standard



Wireless Heat Detector FF T500-W

- ▶ Battery CR17450 3V
- ▶ Frequency band 470MHz
- ▶ Two-way communication
- ▶ Radio frequency transmit power<20dBm
- ▶ Intelligent addressable structure
- ▶ Easy setup and installation
- ▶ 360° view



Wireless Addressable Call Point SGCP 100

- ▶ Two-way communication between receiver
- ▶ 868Mhz frequency
- ▶ Up to 2 years battery life
- ▶ High security protocol
- ▶ Intelligent addressable structure
- ▶ Easy setup and installation
- ▶ Resettable
- ▶ Two-color status LED
- ▶ EN54-11 and EN54-25 Standard



Wireless Manual Call Point FF CP500-W

- ▶ Battery CR17450 3V
- ▶ Frequency band 470MHz
- ▶ Radio frequency transmit power<20dBm
- ▶ Intelligent addressable structure
- ▶ Easy setup and installation



Wireless Addressable Alarm Sounder SGWS-MOD + CWS100 AV

- ▶ Two-way communication between receiver
- ▶ 868Mhz frequency
- ▶ Up to 2 years battery life
- ▶ High security protocol
- ▶ Intelligent addressable structure
- ▶ Easy setup and installation
- ▶ 100dB sound level
- ▶ EN54-3, EN54-23 and EN54-25 Standard



Wireless Sounder and Beacon FF SB500-W

- ▶ CR17450-2-080-02
- ▶ Frequency band 470MHz
- ▶ Sound level 75dB~115dB
- ▶ Radio frequency transmit power<20dBm
- ▶ Intelligent addressable structure
- ▶ Easy setup and installation

500 SERIES ADDRESSABLE FIRE ALARM SYSTEM



Intelligent Addressable Fire Alarm Panel FF FCP500

- ▶ 7" Color LCD Display
- ▶ 1-4 Loop Options
- ▶ 255 Loop address capacity
- ▶ 48 LED Display
- ▶ 2 Sounder Output
- ▶ Alarm-Fault Relay Output
- ▶ EN54-2 & EN54-4 Standard



Intelligent Addressable Fire Alarm Panel FF CP501

- ▶ 5" Color LCD Display
- ▶ 1 Loop
- ▶ 255 Loop address capacity
- ▶ Alarm-Fault Relay Output



Intelligent Addressable Optical Smoke Detector FF O500

- ▶ Microprocessor Based
- ▶ Non-polarized two-wire connection
- ▶ EN54-7 Standard
- ▶ LPCB Approved
- ▶ CPR Certified



Intelligent Addressable LPG / LNG Gas Detector GD500 LMAD

- ▶ IP2X protection
- ▶ Aesthetic design for ceiling
- ▶ Alarm, Fault and Stand by LED alerts
- ▶ Buzzer sound warning
- ▶ Test button
- ▶ Relay Output



Intelligent Addressable Heat Detector FF T500

- ▶ Microprocessor Based
- ▶ Fixed and rate of rise temperature
- ▶ Non-polarized two-wire connection
- ▶ EN54-5 Standard
- ▶ LPCB Approved
- ▶ CPR Certified



Intelligent Addressable CO Gas Detector CO500 LMAD

- ▶ IP55 protection
- ▶ Aesthetic design for ceiling
- ▶ CO gas detection
- ▶ 2 different level alarm outputs
- ▶ 3 different CO level detection (30, 60, 150ppm)



Intelligent Addressable Optical Smoke and Heat Detector FF OT500

- ▶ Microprocessor Based
- ▶ Fixed and rate of rise temperature
- ▶ Non-polarized two-wire connection
- ▶ EN54-29 Standard
- ▶ LPCB Approved
- ▶ CPR Certified



Short Circuit Loop Isolator FF LI500

- ▶ Non-polarized two-wire connection
- ▶ LED Display



Intelligent Addressable Call Point FF CP500

- ▶ Resettable
- ▶ Non-polarized two-wire connection
- ▶ LED Indicator
- ▶ EN54-11 Standard
- ▶ LPCB Approved
- ▶ CPR Certified



Intelligent Addressable I / O Module FF MIC500

- ▶ 1 Input and 1 Output
- ▶ Non-polarized two-wire connection
- ▶ LED Display
- ▶ 24 VDC Supply
- ▶ EN54-18 Standard
- ▶ LPCB Approved
- ▶ CPR Certified



Intelligent Addressable Sounder and Beacon FF LSB550

- ▶ Non-polarized two-wire connection
- ▶ 24 VDC supply
- ▶ EN54-3 Standard
- ▶ LPCB Approved
- ▶ CPR Certified



Intelligent Addressable I / O Module FF MIC500-LP

- ▶ 1 Input and 1 Output
- ▶ Non-polarized two-wire connection
- ▶ LED Display
- ▶ Loop Powered
- ▶ EN54-18 Standard
- ▶ LPCB Approved
- ▶ CPR Certified

INTRINSICALLY SAFE, MARINE AND SIL FIRE ALARM SYSTEM



Orbis Marine Heat Detector (A1R) ORB-HT-41001-MAR

- ▶ Can be used for applications where smoke detectors are unsuitable
- ▶ Ideal for dirty or smoky environments
- ▶ Red flashing LED at StartUp confirms the device is operating.
- ▶ Integral indicator with 360° visibility
- ▶ EN54-5 and EN54-7 Standard



Discovery Optical Smoke Detector (SIL2) 58000-600SIL

- ▶ Reliable fire detection in areas with a very wide temperature range from -40°C to +70°C
- ▶ Five operating modes suitable for a range of applications
- ▶ Drift compensation to ensure constant sensitivity
- ▶ Ideal for accommodation decks, passages and escape routes



Orbis Marine Heat Detector (BR) ORB-HT-41003-MAR

- ▶ Can be used for applications where smoke detectors are unsuitable
- ▶ Ideal for dirty or smoky environments
- ▶ Red flashing LED at StartUp confirms the device is operating.
- ▶ Integral indicator with 360° visibility
- ▶ EN54-5 and EN54-7 Standard



Discovery Heat Detector (SIL2) 58000-400SIL

- ▶ Reliable fire detection in areas with a very wide temperature range from -40°C to +70°C
- ▶ Five operating modes suitable for a range of application temperatures
- ▶ Ideal for environments that are dirty or smoky under normal circumstances
- ▶ Drift compensation to ensure constant sensitivity
- ▶ Remote test feature



Orbis Marine Optical Smoke and Heat Detector ORB-OH-43001-MAR

- ▶ Responds well to fastburning, flaming fires
- ▶ Reduced false alarms
- ▶ Increased reliability of detection
- ▶ Sensing chamber keeps out dust and other airborne contaminant
- ▶ EN54-5 and EN54-7 Standard



Discovery Optical Smoke and Heat Detector (SIL2) 58000-700SIL

- ▶ Reliable fire detection in areas with a very wide temperature range from -40°C to +70°C
- ▶ Five operating modes
- ▶ Drift compensation to ensure constant sensitivity
- ▶ A great alternative to Ionisation detectors
- ▶ Certified to a broad range of marine approvals and EAC approved



Conventional Marine Manual Call Point 55100-021MAR

- ▶ EN 54-11 Certified
- ▶ 'Plug and Play' terminal connections for faster wiring
- ▶ Continuity link for wiring test before commissioning
- ▶ Suitable for semi flush or surface mounting



Discovery Manual Call Point (SIL2) 58100-908SIL

- ▶ EN 54-11 & EN 54-17 Certified
- ▶ Reports an alarm in under 0.2 seconds
- ▶ 'Plug and Play' terminal connections for faster wiring
- ▶ Continuity link for wiring test before commissioning
- ▶ Suitable for semi flush or surface mounting



Conventional Exd Flame Detector (UV/IR2) Flameproof [SIL2] 55000-065APO

- ▶ ATEX Certified: II 2 G D
- ▶ Highest optical interference immunity
- ▶ CENELEC/IEC Certified: EEx d - IIC T6- (Zones 1, 21, 2 and 22)
- ▶ Selectable response speed
- ▶ Remote control self test



Discovery Manual Call Point Outdoor - Isolating (SIL2) 58200-951SIL

- ▶ Suitable for weatherproof applications
- ▶ EN 54-11 & EN 54-17 Certified
- ▶ Resettable operating element
- ▶ 170° viewable LED

700 SERIES ADDRESSABLE FIRE ALARM SYSTEM



**Intelligent Addressable
Fire Alarm Control Panel
FF FCP751**

- ▶ 1/2 loop version
- ▶ 3 programmable relay
- ▶ 127 devices per loop
- ▶ 1000 events log
- ▶ UL Approved



**Intelligent Addressable
Fire Alarm Control Panel
FF FCP701**

- ▶ 1/2 loop version
- ▶ 2 programmable sounder circuits
- ▶ 127 devices per loop
- ▶ 4000 event logs
- ▶ UL Approved



**Intelligent Addressable Detector
FF O751 / FF T751 / FF OT751**

- ▶ Microprocessor Based
- ▶ Non-polarized two-wire connection
- ▶ UL Approved



**Intelligent Addressable Detector
FF O701 / FF T701**

- ▶ Microprocessor Based
- ▶ Non-polarized two-wire connection
- ▶ UL Approved



**Intelligent Addressable I / O Module
FF MIC751**

- ▶ 1 Input and 1 Output
- ▶ Non-polarized two-wire connection
- ▶ LED Display
- ▶ 24 VDC supply
- ▶ UL Approved



**Intelligent Addressable I / O Module
FF MIC701**

- ▶ 1 Input and 1 Output
- ▶ Non-polarized two-wire connection
- ▶ LED Display
- ▶ 24 VDC supply
- ▶ UL Approved



**Intelligent Addressable Call Point
FF CP751**

- ▶ Resettable
- ▶ Non-polarized two-wire connection
- ▶ LED Indicator
- ▶ UL Approved



**Intelligent Addressable Call Point
FF CP701**

- ▶ Resettable
- ▶ Non-polarized two-wire connection
- ▶ LED Indicator
- ▶ UL Approved



**Intelligent Addressable
Sounder and Beacon
FF LSB751**

- ▶ Non-polarized two-wire connection
- ▶ 24 VDC supply
- ▶ UL Approved



**Intelligent Addressable
Sounder and Beacon
FF LSB701**

- ▶ Non-polarized two-wire connection
- ▶ 24 VDC supply
- ▶ UL Approved



INTRINSICALLY SAFE GAS ALARM SYSTEM



LPG Gas Detector PQR-3035

- ▶ 128x64 OLED Display
- ▶ Non-Intrusive Calibration
- ▶ Stores all alarm, fault, and maintenance events up to 250 logs
- ▶ IP65 / IP66 protection
- ▶ EN 60079-0 & EN 60079-1 & EN 60079-18 & EN 60079-29-1 Standard
- ▶ ATEX and IECEx certified



Gas Alarm Panel S-DP4 Analog

- ▶ 4 Analogue, 1 Digital Input
- ▶ Bright and clear LCD display
- ▶ 2 Alarm, 1 Fault and AUX adjustable relay contacts.
- ▶ Up to 12 extra relay outputs for specific applications
- ▶ 6 LED indicators
- ▶ IP66 protection



LPG Gas Detector P-3035

- ▶ High-quality pellistor sensor
- ▶ Relay Outputs: 2 Alarms and 1 Fault (Optional)
- ▶ Wall or Ceiling mounting
- ▶ IP65 / IP66 protection
- ▶ EN 60079-0 & EN 60079-1 & EN 60079-18 Standard
- ▶ ATEX and IECEx certified



Gas Alarm Panel S-DP8 Analog

- ▶ 8 Analogue, 1 Digital Input
- ▶ Bright and clear LCD display
- ▶ 2 Alarm, 1 Fault and AUX adjustable relay contacts.
- ▶ Up to 24 extra relay outputs for specific applications
- ▶ 6 LED indicators



LPG Gas Detector PE-3012

- ▶ High-quality catalytic sensor
- ▶ 2 Relay Contacts (Optional)
- ▶ Wall or Ceiling mounting
- ▶ IP65 protection
- ▶ EN 60079-0 & IEC EN 60079-1 & EN 60079-18 Standard
- ▶ ATEX and IECEx certified



Gas Alarm Panel S-DP32 Digital

- ▶ 1 Serial Input to communicate up to 32 detectors and 1 Digital Input
- ▶ Bright and clear LCD display
- ▶ 2 Alarm, 1 Fault and AUX adjustable relay contacts.
- ▶ Up to 24 extra relay outputs for specific applications
- ▶ 6 LED indicators



LPG Gas Detector PE KAYO-3012

- ▶ Specially designed for the Oil&Gas stations
- ▶ High-quality catalytic sensor
- ▶ Relay Outputs: 2 Alarms and 1 Fault (Optional)
- ▶ Wall or Ceiling mounting
- ▶ IP65 protection
- ▶ EN 60079-0 & IEC EN 60079-1 Standard
- ▶ ATEX and IECEx certified



CO Gas Detector PPS-CO

- ▶ Electrochemical sensor
- ▶ 3x PG11 cable entries
- ▶ IP54 protection
- ▶ EN 50270 Standard
- ▶ ATEX and IECEx certified



LPG Gas Detector PC3-3012

- ▶ High-quality catalytic sensor
- ▶ Relay Outputs: 2 Alarms and 1 Fault (Optional)
- ▶ Wall or Ceiling mounting
- ▶ IP65 protection
- ▶ EN 60079-0 & IEC EN 60079-1 & EN 60079-18 Standard
- ▶ ATEX and IECEx certified



CO Gas Detector PPS-RCO

- ▶ Electrochemical sensor
- ▶ 3x PG11 cable entries
- ▶ IP54 protection
- ▶ EN 50270 Standard
- ▶ ATEX and IECEx certified

1224 SERIES GAS AND WATER LEAKAGE ALARM SYSTEM



 **Dedal**

Addressable Gas Alarm Panel GF FCP1224 AD

- ▶ 5" Color LCD display
- ▶ 1-4 Loop options
- ▶ 225 Loop address capacity
- ▶ 2 Sounder output
- ▶ Alarm-Fault Relay output



 **Dedal**

Conventional Gas Alarm Panel GF FCP1224 CP

- ▶ 4 / 8 Zone
- ▶ Pre-alarm output for each zone
- ▶ Output Alarm Relay for each zone
- ▶ Alarm output
- ▶ Fault output
- ▶ Monitored sounder output



Addressable LPG / LNG Gas Detector GF 1224 LMAD

- ▶ IP2X protection
- ▶ Alarm, Fault and Stand by LED alerts
- ▶ Aesthetic design for ceiling and wall mounting
- ▶ Buzzer sound warning
- ▶ Test button
- ▶ Addressable



Conventional LPG / LNG Gas Detector GD 1224 LM

- ▶ IP2X protection
- ▶ Aesthetic design for ceiling and wall mounting
- ▶ Alarm, Fault and Stand by LED alerts
- ▶ Buzzer sound warning
- ▶ Test button
- ▶ Relay Output



Addressable CO Gas Detector GF 1224 COAD

- ▶ IP55 protection
- ▶ CO gas detection
- ▶ 2 Different level alarm outputs
- ▶ 3 Different CO level detection (30, 60, 150 ppm)
- ▶ Addressable



CO Gas Detector GF 1224 CO

- ▶ IP55 protection
- ▶ Aesthetic design for ceiling and wall mounting
- ▶ CO gas detection
- ▶ 2 different level alarm outputs
- ▶ 3 different CO level detection (30, 60, 150ppm)



Addressable Water-leakage Detector WF 1224 AD

- ▶ Design for humid environments
- ▶ Relay output



Conventional Water-leakage Detector WF 1224

- ▶ Design for humid environments
- ▶ Relay output



Addressable Module GF IOM1224

- ▶ 1 output / 1 input
- ▶ Short circuit isolator
- ▶ 24V Powered
- ▶ VDS Approved



Gas Safety Shut-off Valve GS 1224 SV

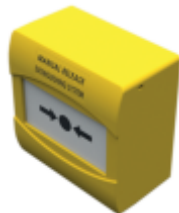
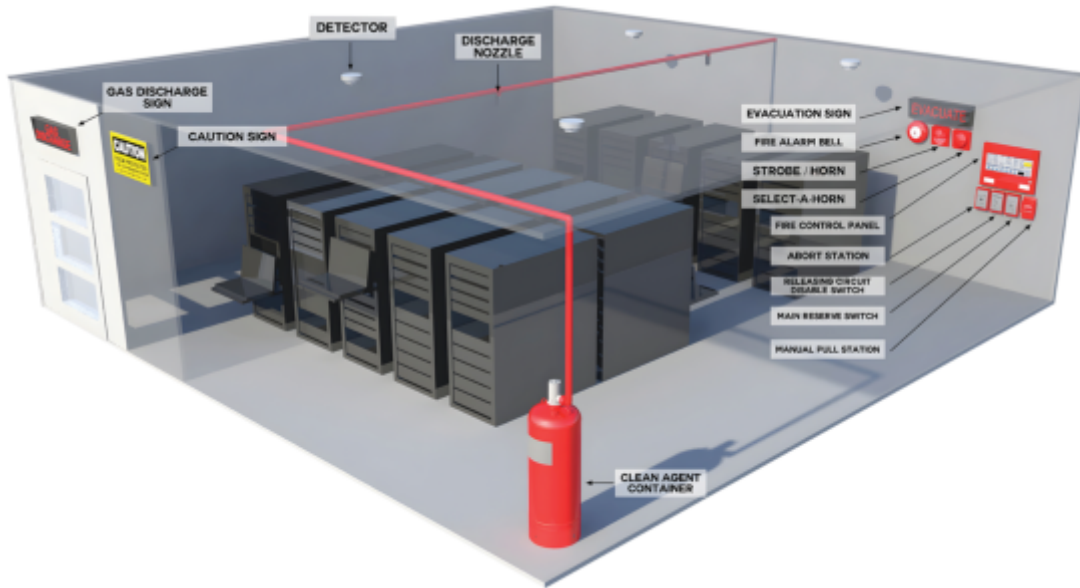
- ▶ Solenoid Operated
- ▶ Flanged PN16
- ▶ Manual Reset
- ▶ Aluminium Body
- ▶ For Natural Gas, LPG and Propane

XT SERIES FIRE ALARM AND SUPPRESSION SYSTEM

- ▶ FF XT Fire Control Panel
- ▶ EN12094-1, EN54-2 and EN54-4 Certified
- ▶ 3 Standard Detection Zone
- ▶ Any zone can be configured from any region combination
- ▶ Programmable first level siren delays
- ▶ Programmable detection delays
- ▶ Manual discharge zero delay time option
- ▶ Control Relay
- ▶ The countdown timer shows the time remaining to trigger
- ▶ FF O100 Smoke Detector
- ▶ FF T100 Heat Detector
- ▶ FF CP100-Y Release Call Point
- ▶ FF CP100-B Abort Call Point
- ▶ FF ESF102 Siren and Beacon
- ▶ FF ES101 Siren
- ▶ REA 2G2 Integrated REASURE Remote Monitoring
- ▶ Alarms and Faults can be monitored from Mobile Phone



bsi.



PF AND LF SERIES EMERGENCY LIGHTING AND SIGNING UNITS



**Emergency Signing Unit
PF 6000-SU**

- ▶ Double-sided type (single-sided if desired)
- ▶ Continuous mode
- ▶ Slim and aesthetic design
- ▶ Wide angle long life 9 SMD LED light source
- ▶ Long battery life with smart charging feature
- ▶ Can print any kind of pictogram
- ▶ Flexible for wall and ceiling mounting
- ▶ Surface mounting



**Emergency Signing Unit
PF 6000-SA**

- ▶ Double-sided type (single-sided if desired)
- ▶ Continuous mode
- ▶ Slim and aesthetic design
- ▶ Wide angle long life 9 SMD LED light source
- ▶ Long battery life with smart charging feature
- ▶ Can print any kind of pictogram
- ▶ Flexible for wall and ceiling mounting
- ▶ Flush mounting



**Emergency Lighting Unit
LF 4000**

- ▶ One-sided type
- ▶ Acrylic transparent reflector with 98% light
- ▶ Flexible wall and ceiling mounting
- ▶ Slim and aesthetic design
- ▶ Long life 18 SMD LED light source
- ▶ Long battery life time with smart charging feature



**Emergency Lighting Unit
LF 7000**

- ▶ 2x27 Watt LED
- ▶ 2x12V 7Ah Battery
- ▶ 3 hours of uninterrupted operation in case of power outage
- ▶ Outdoor use
- ▶ High performance



**Emergency Lighting Unit
LF 7001**

- ▶ 2x27 Watt LED
- ▶ 2x12V 7Ah Battery
- ▶ 3 hours of uninterrupted operation in case of power outage
- ▶ Indoor use
- ▶ High performance



ACCESS CONTROL SYSTEM



Card Access Management Software

- ▶ Contactless Card Management System is an advanced access control and alarm management software.
- ▶ Database mirroring system, backup and import/export of the system increases the efficiency and safety.
- ▶ It has standard access control features. (Time zones, Access level, etc.)
- ▶ Many functions offered by Contactless Card Management System; password protection, anti-passback (global, local and timed interlock, countless levels of counters, controller message on screen)
- ▶ Elevator Control
- ▶ Visitor Management
- ▶ Access control / Personnel Attendance Control System / Guard Timer / Real time monitoring / Visual identification / Motion and alarm monitoring and control / Transition rights recognition / Multi-user support / Event memory



Control unit FA C2001.NET 1 Door 2 Readers FA C2002.NET 2 Door 4 Readers FA C2004.NET 4 Door 4 Readers

- ▶ TCP / IP Communication
- ▶ Online / Offline mode
- ▶ Flexible user privilege scheme
- ▶ Remote door opening, locking
- ▶ Changeable and printable report format
- ▶ Multi-user control
- ▶ Anti-passback and Anti-queue
- ▶ Interface locking
- ▶ Door lock control based on internal and external verification
- ▶ Wiegand 26-Bit
- ▶ 20,000 card capacity
- ▶ Optional elevator control



Control unit FA C2001 1 Door 2 Readers FA C2002 2 Door 4 Readers FA C2004 4 Door 4 Readers

- ▶ Communication RS-485
- ▶ Online / Offline mode
- ▶ Flexible door opening, locking
- ▶ Remote door opening, locking
- ▶ Changeable and printable report format
- ▶ Multi-user control
- ▶ Anti-passback and Anti-queue
- ▶ Interface locking
- ▶ Door lock control based on internal and external verification
- ▶ Wiegand 26-Bit
- ▶ 20,000 card capacity
- ▶ Optional elevator control



A300 Standalone Fingerprint Reader

- ▶ Personnel attendance control system
- ▶ 300 MHz high-speed processor
- ▶ BioNano core fingerprint algorithm
- ▶ Flexible user privilege scheme
- ▶ Waterproof and dust proof fingerprint sensor
- ▶ Real-time data transfer
- ▶ Online tracking
- ▶ Fingerprint capacity: 2000
- ▶ Recording capacity: 50000
- ▶ Identity speed: 0.5 seconds



VF30 Fingerprint Reader

- ▶ Wiegand 26 - Bit
- ▶ High performance and reliability
- ▶ BioNano core algorithm platform
- ▶ Non-scratch, unbreakable and durable
- ▶ Optical waterproof fingerprint sensor
- ▶ Standard fingerprint reader, optional RFID/Mifare/HID card reader
- ▶ RS485 for network connection, USB device and TCP/IP
- ▶ It is used directly to open the lock control door.
- ▶ Support realtime record download
- ▶ Online tracking
- ▶ Fingerprint capacity: 10000
- ▶ Recording capacity: 32000
- ▶ ID time: 0.5 seconds



Fingerprint Readers

- ▶ Fingerprint reader
- ▶ RFID card reader
- ▶ 10 cm reading distance
- ▶ 12V



Card Readers RFID - Reader

- ▶ 125 KHz
- ▶ Wiegand 26-Bit
- ▶ 10 cm reading distance
- ▶ 12V

Wide Range of Card Reader Options



EMERGENCY VOICE EVACUATION



EN54-16

Emergency Control Unit VF 7000

- ▶ 10 zone control.
- ▶ 10 emergency contact inputs
- ▶ Ability to record 256 voice messages
- ▶ 10 evacuation scenarios
- ▶ Scenarios can be configured with using interface program on PC
- ▶ Emergency microphone
- ▶ 24 Volt emergency output
- ▶ 2 Microphone 2 Line inputs
- ▶ Expansion up to 300 regions
- ▶ Pre-listening with monitor speaker



Ceiling Speaker TH 06 EN

- ▶ 6" Ceiling Speaker.
- ▶ Fire Resistant Body
- ▶ Hole diameter: 16.8 cm
- ▶ Sensitivity: 98 dB
- ▶ Frequency range: 90-20000Hz
- ▶ 6-12 W / 700V
- ▶ EN 54-24 Standard



EN54-16

Emergency Power Amplifiers FV 7250/7360/7500

- ▶ Amplifier output power:
 - VF 7250: 250W / 100 V
 - VF 7360: 360W / 100 V
 - VF 7500: 500W / 100 V
- ▶ Signal input 100 mV (Max 1V)
- ▶ Led vumeter
- ▶ DC protection for speakers
- ▶ Output short circuit protection
- ▶ With line transformer (100 volts)
- ▶ Voice alarm input and control
- ▶ Suitable for 19" Rack Cabinet Standard



Ceiling Speaker TH 05 EN

- ▶ 5" Ceiling Speaker.
- ▶ Fire Resistant Body
- ▶ Hole diameter: 15.5 cm
- ▶ Sensitivity: 91 dB
- ▶ Frequency range: 90-16000Hz
- ▶ 10-20 W / 100V
- ▶ EN 54-24 Standard



EN54-76

Expansion Unit FV 7111

- ▶ 10 zone control.
- ▶ Main and spare amplifier input.
- ▶ Communication with the central unit.
- ▶ Expandable up to 300 zones with 29 pieces of interoperability feature.
- ▶ 10 emergency contact inputs.
- ▶ Ability to test 10 loudspeaker lines by inspecting every 100 seconds.
- ▶ EN 54-76 & IEC 60849 Standard



Ceiling Speaker TH 05

- ▶ 5" Ceiling Speaker.
- ▶ Hole diameter: 15 cm
- ▶ Sensitivity: 93 dB
- ▶ Frequency range: 100-15000Hz
- ▶ 5-10 W / 100V
- ▶ 180-60 (mm)



EN54-76

Emergency Power Control FV 7124

- ▶ Emergency control.
- ▶ External 24 volt 100 amp battery charging and automatic charging cut-off.
- ▶ When 220 Volt is cut off, it automatically switches on and continues the operation of the system.
- ▶ EN 54-76 & IEC 60849 Standard



Wall Speaker TH 06 EN

- ▶ 6" Wall Speaker.
- ▶ Fire Resistant Body
- ▶ Sensitivity: 92 dB
- ▶ Frequency range: 130-18000Hz
- ▶ 10-20 W / 100V
- ▶ EN 54-24 Standard



EN54-16

Microphone Unit & Zone Selector FV 7110E

- ▶ LCD touch screen
- ▶ Ability to select individual, regional and general announcements
- ▶ 300 zone control possibilities
- ▶ Possibility of control from different points by means of 10 consoles
- ▶ Public announcement. Mp3 Player
- ▶ System control from 2 km with CAT Cable
- ▶ Suitable for desktop use



Ceiling Speaker OZ 02 T

- ▶ 4" Ceiling Speaker.
- ▶ White / Black Color option
- ▶ Frequency range: 70-16000Hz
- ▶ 25 W / 100V
- ▶ 240 x 150 x 130 (mm)

► Fire Alarm Remote Monitoring Software

- AMC monitors the different branded of fire alarm control panels.
- AMC monitors alarmed area camera.
- AMC monitors and controls other mechanical and electrical systems.
- AMC notifies alarms and faults from smartphones, tablets, computers.
- AMC notifies the exact alarm location in the building plan.
- AMC notifies the route to building
- AMC notifies the contact details of the building authorities.
- AMC communicates through three GSM channels, Ethernet and Wi-Fi.
- AMC communicates with two servers; main and redundant.
- AMC reports maintenance activities, faults and alarm reports.

REA 8GEWRS Data Modem

- 8 Input
- 8 Output
- 24 Vdc Monitoring (Supply input)
- Battery backup against power failures (8 hours)
- RS232 Input Monitoring
- RS485 Input monitoring
- CANBUS Input Monitoring
- Extension Card monitoring and control (16 input 8 Out.)
- 2G / 3G / 4.5G communication
- Redundant operation with 2 GSM operator (Dual Sim card etc.)
- Automatic switching between 2 GSM operators
- Wireless communication with RF module (optional)
- GSM Signal Level monitoring
- SMS reporting
- Remote or configuration with USB / RS232 and Web



Dedal



REA 2G3 Data Modem

- 3 Server communication
- RS232 Data Connection
- SPI Connection
- 2G communication
- Redundant operation with 2 GSM operator (Dual Sim card)
- Automatic switching between 2 GSM operators
- Remote configuration
- Adjustable test signal
- Small structure can be connected into fire control panel
- Adjustable Alarm Signal Repeat
- Adjustable Fault repeat Signal
- AES128 end-to-end encryption (optional)
- SMS Sending (optional)
- Battery backup (optional)
- 3 Input 1 OutPut

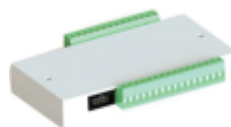


Dedal



REA and Modules

- REA Z8 8 Zone / 16 Input Module
- REA Z8 O8 Relay Output Module
- REA Z8 RS232 232 Connection Module
- REA Z8 RS485 485 Connection Module
- REA 16IN4O 16 Input 4 Output Module



Building Security Systems Integration Software

- ▶ Flexible alarm scenarios
- ▶ Different branded CCTV system integration
- ▶ Remote monitoring from phones and tablets



PRODUCTS

- ▶ Finder products are manufactured by Italian, British and Turkish know how.



- ▶ Finder products installed and maintained by Certified Installers



- ▶ Finder products quality have been tested and certified by



- ▶ Finder products have 7 unique feature



**Sustainable
Enterprise**



**Certified
Products**



**Complete
Solution**



**Satisfaction
Guarantee**



**Competitive
Products**

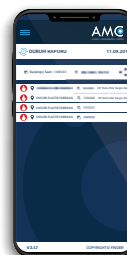
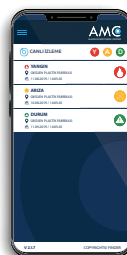


**Years
Experience**



**Superior
Products**

- ▶ Finder products guarantee customer satisfaction by 7/24 electronic monitoring service.





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Azerbaijan



Bahrain



Bangladesh



Cambodia



Croatia



Egypt



Greece



Guinea-Bissau



India



Iran



Iraq



Ireland



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Kazakhstan



Kenya



Kuwait



Lebanon



Libya



Malaysia



Maldives



Morocco



Myanmar



Niger



Nigeria



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