FIRE PROTECTION

The ESP® fire systems have been created to balance performance, reliability and aesthetics whilst being fully CPR compliant and certified to EN54 standards. The range includes everything required to complete high quality, durable, two wire, conventional and addressable fire alarm installations.

MAGDUO®   **MAG**fire®   CPR COMPLIANT   BAFE

ALKINSGLOBAL

FIRE SYSTEM COMMISSIONING

Alongside ESP's extensive range of fire protection systems, a new commissioning service has now been launched to ensure that an installed ESP® system operates correctly in accordance with the recommendations of BS5839-1.

SYSTEM DESIGN

ESP® can offer a team of dedicated design engineers who are fully trained & qualified in all of the relevant British Standards.

We are able to provide an in-depth solution to any challenge your building may provide, this is done by visiting sites and studying site drawings.

All of our Computer Aided Design (CAD) is carried out in-house, this enables us to amend our designs as the job progresses.

MAGDUO2BKIT

2 Zone Two Wire Conventional Fire Alarm Kit

- MAGDUO2B 2 zone Two Wire fire panel (Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHDSS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHDRT Head removal tool

MAGDUO2KIT

2 Zone Two Wire Conventional Fire Alarm Kit

- MAGDUO2 2 zone Two Wire fire panel (Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHDSS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHDRT Head removal tool

MAGDUO4BKIT

4 Zone Two Wire Conventional Fire Alarm Kit

- MAGDUO4B 4 zone Two Wire fire panel (Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHDSS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHDRT Head removal tool

MAGDUO4KIT

4 Zone Two Wire Conventional Fire Alarm Kit

- MAGDUO4 4 zone Two Wire fire panel (Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHDSS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHDRT Head removal tool

MAGDUO8BKIT

8 Zone Two Wire Conventional Fire Alarm Kit

- MAGDUO8B 8 zone Two Wire fire panel (Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHDSS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHDRT Head removal tool

MAGDUO8KIT

8 Zone Two Wire Conventional Fire Alarm Kit

- MAGDUO8 8 zone Two Wire fire panel (Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHDSS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHDRT Head removal tool

MAGDUO2 Grey   MAGDUO2B Black
2 Zone Two Wire Fire Panel

- Two Wire fire alarm system
- Active end of line monitoring and head removal
- Up to 32 devices per zone (Dependent on Device Loading Unit: DLU)
- 4 line x 20 character LCD display
- Ability to differentiate between smoke detector, heat detector or a manual call point alarms
- Alarm confirmation feature
- Event log storing up to 500 events
- 3 enhanced test modes
- Zone can be configured to day/night detection mode
- Delay programming options
- Certified to EN54 2/4 Standards
- Requires 2 x 12V 3.2Ah batteries (BAT32)
- Optional extended battery box with capacity for 2 x 12V 7.0Ah batteries

Inputs	
Max Detectors Per Zone	Up to 32 Devices (Dependant on Device Loading Units , 160 per Zone)
Power	
Mains Supply	230VAC, +10%, -15%, 50/60Hz
Operating Voltage	24vDC (Range 21-31vDC)
Standby Supply	2 x 12V 3.2Ah S.L.A Battery
Outputs	
Zone	Up to 2 (300mA)
Monitored Sounder Circuits	Up to 2 (250 mA)
Monitored Relay Circuits	Up to 2 (250 mA)
Auxiliary Output	24vDC (300mA)
Environment	
Working Temperature	5°C to 40°C
Dimensions	333 x 333 x 99mm
Weight	2.25 Kg

MAGDUOBBB
Battery Expansion Box for MAGDUO

MAGDUOPK (Pack of 2)
Two Wire Fire Panel Spare Key

MAGDUOPCPS
MAGDUO Software

MAGDUO4 Grey   MAGDUO4B Black
4 Zone Two Wire Fire Panel

- Two Wire fire alarm system
- Active end of line monitoring and head removal
- Up to 32 devices per zone (Dependent on Device Loading Unit: DLU)
- 4 line x 20 character LCD display
- Ability to differentiate between smoke detector, heat detector or a manual call point alarms
- Alarm confirmation feature
- RS485 connection to up to 8 repeater panels
- Event log storing up to 500 events
- 3 enhanced test modes
- Zone can be configured to day/night detection mode
- Delay programming options
- 4 or 8 zone panel can now be configured to accept conventional devices on zones 5 to 8 with the optional conventional zone card
- Certified to EN54 2/4 Standards
- Requires 2 x 12V 3.2Ah batteries (BAT32)
- Optional extended battery box with capacity for 2 x 12V 7.0Ah batteries

Inputs	
Max Detectors Per Zone	Up to 32 Devices (Dependant on Device Loading Units , 160 per Zone)
Power	
Mains Supply	230VAC, +10%, -15%, 50/60Hz
Operating Voltage	24vDC (Range 21-31vDC)
Standby Supply	2 x 12V 3.2Ah S.L.A Battery
Outputs	
Zone	Up to 4 (300mA)
Monitored Sounder Circuits	Up to 2 (250 mA)
Monitored Relay Circuits	Up to 2 (250 mA)
Auxiliary Output	24vDC (300mA)
Environment	
Working Temperature	5°C to 40°C
Dimensions	333 x 333 x 99mm
Weight	2.28 Kg

MAGDUOBBB
Battery Expansion Box for MAGDUO

MAGDUOPK (Pack of 2)
Two Wire Fire Panel Spare Key

MAGDUOPCPS
MAGDUO Software

MAGDUO8 Grey MAGDUO8B Black
8 Zone Two Wire Fire Panel

CPR COMPLIANT · EN54 · CE · Made in UK · RoHS COMPLIANT 2002/95/EC

- Two Wire fire alarm system
- Active end of line monitoring and head removal
- Up to 32 devices per zone (Dependent on Device Loading Unit: DLU)
- 4 line x 20 character LCD display
- Ability to differentiate between smoke detector, heat detector or a manual call point alarms
- Alarm confirmation feature
- RS485 connection to up to 8 repeater panels
- Event log storing up to 500 events
- 3 enhanced test modes
- Zone can be configured to day/night detection mode
- Delay programming options
- 4 or 8 zone panel can now be configured to accept conventional devices on zones 5 to 8 with the optional conventional zone card
- Certified to EN54 2/4 Standards
- Requires 2 x 12V 3.2Ah batteries (BAT32)
- Optional extended battery box with capacity for 2 x 12V 7.0Ah batteries

Inputs	
Max Detectors Per Zone	Up to 32 Devices (Dependant on Device Loading Units , 160 per Zone)
Power	
Mains Supply	230VAC, +10%, -15%, 50/60Hz
Operating Voltage	24vDC (Range 21-31vDC)
Standby Supply	2 x 12V 3.2Ah S.L.A Battery
Outputs	
Zone	Up to 8 (300mA)
Monitored Sounder Circuits	Up to 2 (250 mA)
Monitored Relay Circuits	Up to 2 (250 mA)
Auxiliary Output	24vDC (300mA)
Environment	
Working Temperature	5°C to 40°C
Dimensions	333 x 333 x 99mm
Weight	2.36 Kg

MAGDUOBBB
Battery Expansion Box for MAGDUO

MAGDUOPK (Pack of 2)
Two Wire Fire Panel Spare Key

MAGDUOPCPS
MAGDUO Software

MAGDUOREP Grey MAGDUOREPB Black
Conventional Repeater Panel for MAGDUO

EN54 · CE · Made in UK · RoHS COMPLIANT 2002/95/EC · CPR COMPLIANT

- Compatible with MAGDUO 4 or 8 zones control panels only
- Reports MAGDUO panel events to a remote location
- Capable of performing system controls (i.e. Silence Alarms, Reset, Sound Alarms & Silence Buzzer)
- Maximum of 8 repeater panels can be connected to a single control panel

Power	
Power	24vDC (Range 21-31vDC)
Consumption	
Quiescent (Back Light Off)	24vDC @ 16mA
Maximum (Back Light and Controls Enabled)	24vDC @ 50mA
Input	
Communication	RS-485
Max. Length Between Panels	500 Meters
Output	
Communication	RS-485
Max. Length Between Panels	500 Meters
Technical spec	
Max. Number per Panel	8
Environment	
Working Temperature	5°C to 50°C
Weight	0.65 Kg
Dimensions	250 x 140 x 85 mm

BPS-1 24V 1 Amp Boxed Power Supply
BPS-2 24V 2 Amp Boxed Power Supply
BPS-5 24V 5 Amp Boxed Power Supply
Nb Boxed power supplies require 2 x 12V batteries (not supplied)

MAGDUOSHD

FlexiPoint Detector for Fire Detection

- 7 modes of fire detection including combined smoke/heat
- Built-in End of Line function
- Self-calibration every 6 hours
- Continuous dust contamination monitoring
- Device wiring base included

MAGDUOSHDS

FlexiPoint Detector with Sounder for Fire Detection

- 7 modes of fire detection including combined smoke/heat
- Complete with 3 sounder modes
- Built-in End of Line function
- Self-calibration every 6 hours
- Device wiring base included
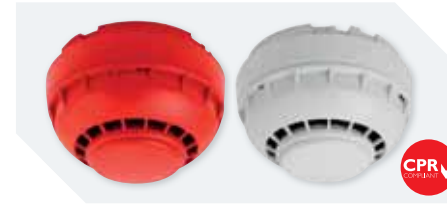- Continuous dust contamination monitoring

MAGDUOSHDSS

FlexiPoint Detector with Sounder & Strobe for Fire Detection

- 7 modes of fire detection including combined smoke/heat
- Complete with 3 sounder modes and LED strobe
- Built-in End of Line function
- Self-calibration every 6 hours
- Device wiring base included
- Continuous dust contamination monitoring

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7 Modes Of Detection

Smoke 1 - Standard optical with high thermal enhancement
Smoke 2 - Standard optical with normal thermal enhancement
Smoke 3 - Low sensitivity optical with transient rejection

Heat 1 - Rate of Rise 58°C, general use in normal, stable environments (Class A1)
Heat 2 - Low fixed 58°C, Domestic kitchens etc (Class A1)
Heat 3 - Hi Fixed 90°C, Commercial kitchens, boiler rooms

Combined - Smoke 2 / Heat 2

MAGDUOSR Red   **MAGDUOSW** White
Ceiling Sounder for MAGDUO

- Ceiling mount sounder
- Volume level adjustment
- Built-in End of Line function
- Device wiring base included

MAGDUOSRSQ Red   **MAGDUOSWSQ** White
Wall Sounder for MAGDUO

- Wall mount white sounder
- Volume level adjustment
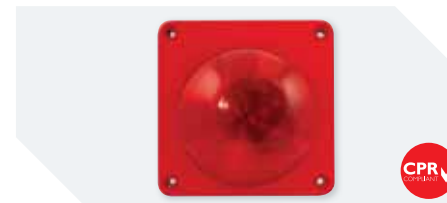- Built-in End of Line function
- Device base included

MAGDUOSSLP

Sounder Strobe for MAGDUO - Low Profile

- Complete with 3 sounder modes and LED strobe
- Volume level adjustment
- Built-in End of Line function
- Low profile design
- Device wiring base included

MAGDUOSS

Sounder Strobe for MAGDUO - Domed

- Complete with 3 sounder modes and LED strobe
- Volume level adjustment
- Built-in End of Line function
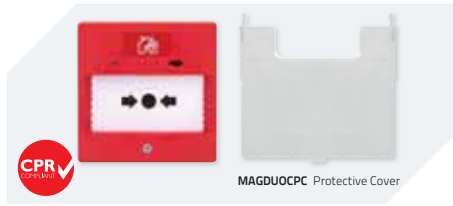- Domed profile design
- Device wiring base included

MAGDUOSIP55

Strobe for MAGDUO

- IP55 Ingress protection
- LED strobe
- Built-in End of Line function
- Device base included

MAGDUOSRIP55

Sounder for MAGDUO

- IP55 Ingress protection
- Volume level adjustment
- Built-in End of Line function
- Device base included

MAGDUOCP   MAGDUOCPIP65 IP Version
Call Point for MAGDUO

- Resettable manual call point
- Built-in End of Line function
- Device base included

MAGDUOCPC Protective Cover

MAGDUOCPK
Spare Call Point Key for MAGDUO

MAGDUOIOR
Module for MAGDUO

- Configure as an input for reporting from other systems or devices
- Configure as an output to control external systems
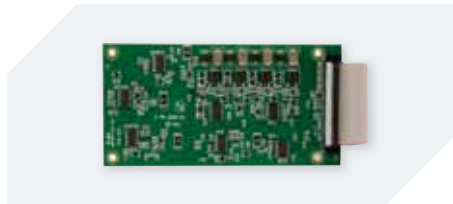- Built-in End of Line function

MAGDUOBBB
Battery Expansion Box for MAGDUO

- Includes; conduit bushes, coupling and battery leads
- Batteries not included

MAGDUOSHDDB
Deep Base for MAGDUO Devices

- For use with; FlexiPoint devices, internal ceiling sounders & strobes

MAGDUOZC4
MAGDUO4 Zone Expansion Card

- Expands a 4 zone MAGDUO4 to an 8 zone panel

MAGDUOCC4
MAGDUO4 Zone Conventional Card

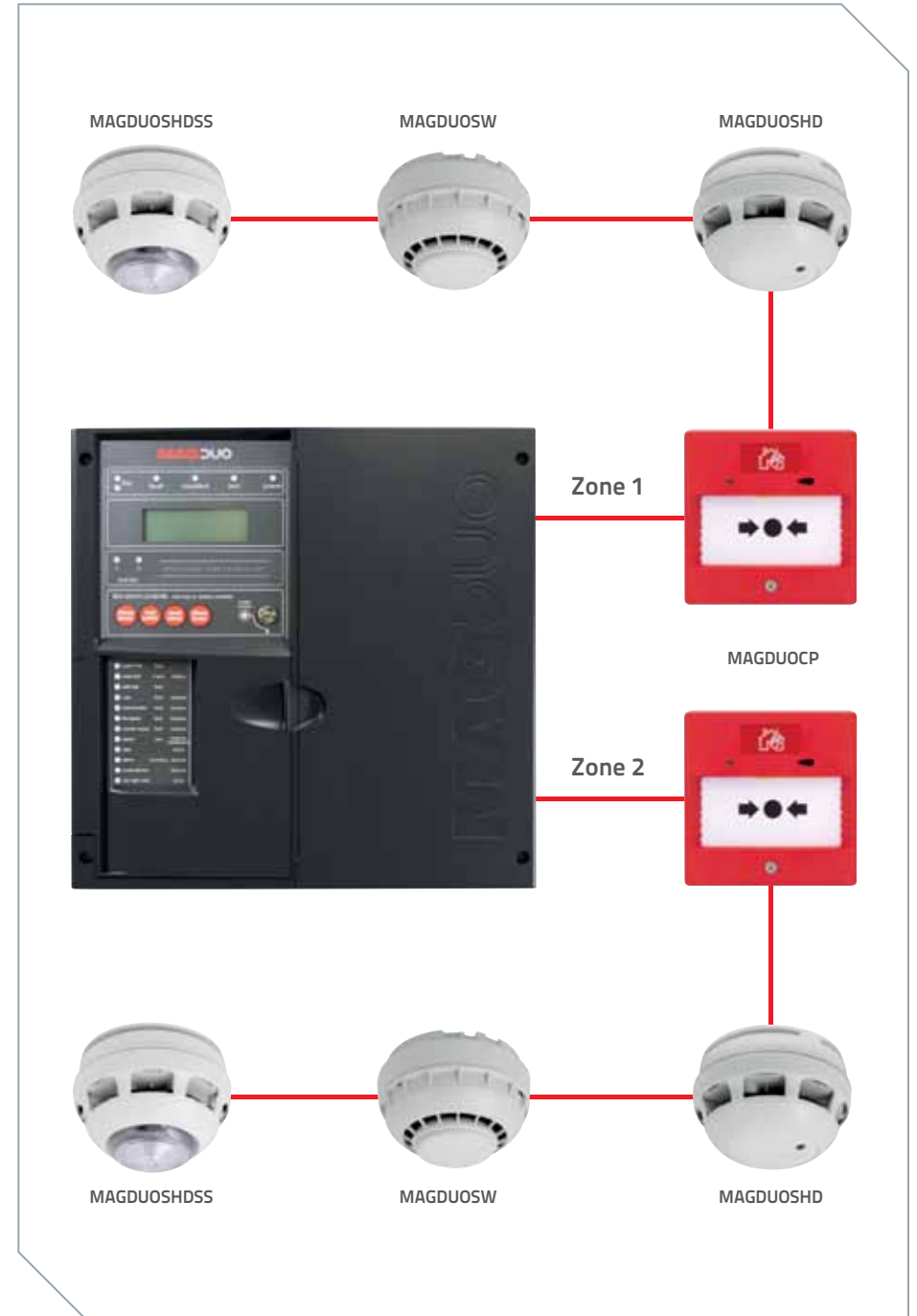- Expands a 4 zone MAGDUO4 to include 4 zones for conventional detectors and call points

MAGDUOSHDRT
MAGDUO Head Removal Tool

- Required to remove the chamber from the MAGDUO FlexiPoint detectors, sounders and strobes
- The head removal tool may be attached to an extendable pole

MAGDUOSHDSS   MAGDUOSW   MAGDUOSHD

Zone 1

MAGDUOCP

Zone 2

MAGDUOSHDSS   MAGDUOSW   MAGDUOSHD

MAGPRO16 White **MAGPRO16G** Grey
Addressable 16 Zone Fire Panel

CPR COMPLIANT · EN54 · CE · Made in EU · RoHS COMPLIANT 2002/95/EC

- 16 Zones
- Maximum 250 devices per loop
- Memory Log: 10,000 events
- Networkable up to 32 Panels
- Class change function
- 4 x 40 character LCD display
- Free programming software (On completion of training – UK)
- Micro USB port for PC connection
- Loop & battery calculator software included
- Certified to EN54–2/4

16 zone addressable fire alarm panel supplied with 1 loop. Expandable to 2 loops using MAGPRO16-L250. A maximum of 250 devices can be connected to each loop.

Inputs	
Loops	1 expandable to 2
Devices Per Loop	250
Protocol	MAGPRO
Power	
Mains Fail Consumption	125mA DC – 1 LOOP 213mA DC – 2 LOOP
Mains Supply	230V AC + 10%/ -15%
Max Loop Current	500mA DC
Backup	1x12V 18Ah
Outputs	
2 Sounders	24v DC @ 500mA
4 Programmable Relays	24v DC @ 15A
3 Monitored Outputs	24v DC @ 100mA
3 Monitored Inputs	Volt free contacts
Environment	
Working Temperature	-5°C TO +40°C
Storage	-10°C TO 60°C
Humidity	0 - 95%
Weight	4.2KG (Without Battery)
Dimensions	320 x 220 x 80mm

MAGPRO16-L250
Single Loop Expander for 250 Devices

MAGPRO-PROG Programming Tool
For more info see page 163

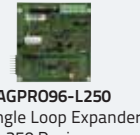EN54 · CE · Made in EU · RoHS COMPLIANT 2002/95/EC · CPR COMPLIANT

MAGPRO96 White **MAGPRO96G** Grey
Addressable 96 Zone Fire Panel

- 96 Zones
- Maximum 250 devices per loop
- Memory Log: 10,000 events
- Networkable up to 32 Panels
- 320 x 240 pixel touch screen display
- Free programming software (On completion of training – UK)
- Micro USB port for PC connection
- Loop & battery calculator software included
- Certified to EN54–2/4

96 zone addressable fire alarm panel supplied with 1 loop. Expandable to 4 loops using additional MAGPRO96-L250's. A maximum of 250 devices can be connected to each loop.

Inputs	
Loops	1 expandable to 4
Devices Per Loop	250
Protocol	MAGPRO
Power	
Mains Fail Consumption	285mA DC - 1 LOOP 360mA DC - 2 LOOP 435mA DC - 3 LOOP 510mA DC - 4 LOOP
Mains Supply	230V AC + 10%/ -15%
Max Loop Current	500mA DC
Backup	1x12V 18Ah
Outputs	
1 Sounder	24v DC @ 300mA
4 Programmable Relays	24v DC @ 15A
2 Monitored Outputs	24v DC @ 300mA
1 Auxiliary Output	24v DC @ 300mA
1 Fault Output	24v DC @ 300mA
Environment	
Working Temperature	-5°C TO +40°C
Storage	-10°C TO 60°C
Humidity	0 - 95%
Weight	6KG (Without Battery)
Dimensions	456 x 350 x 125mm

MAGPRO96-L250
Single Loop Expander
for 250 Devices

MAGPRO96GBB
Battery Expansion Box
for MAGPRO96G

- Certified according to EN 54-4
- Supports 2x 12V/18Ah

MAGPRO-PROG Programming Tool
For more info see page 163

*Recommend a Boxed Power Supply with battery backup

MAGPRO-REP
Addressable Repeater Panel

■ Wall-mount design

■ Only compatible with MAGPRO16 Ver2.8 and higher

■ Compatible with MAGPRO96

■ Requires 24VDC External Power Supply

■ Max consumption of 0.11A (110mA)

■ Each panel in network will require a MAGPRO-NIC

■ Maximum of 32 panels in the network

■ 1000m distance from MAGPRO-REP to MAGPRO Panel

■ Dimensions 200 x 330 x 48mm

■ Ring type network

■ 10,000 event log within the repeater

Power	
From a MAGPRO Panel	AUX / GND
External*	24VDC +/-4 VDC
Consumption	110mA
Input	
Communication	RS485
Max Length Between Panels	1000m
Output	
Communication	RS485
Max Length Between Panels	1000m
Technical spec	
Memory LOG	10,000 events
Network type	Ring
MAGPRO16 Firmware Compatibility	Ver 2.8 or higher
MAGPRO96 Firmware Compatibility	Ver 4.2 or higher
Max number of panels	32
Connection to MAGRO Panel	Via MAGPRO-NIC
Environment	
Working Temperature	-10°C to +50°C
Humidity	0.95
Weight	770g
Dimension	200 x 330 x 48mm

MAGPRO-NIC NETWORK INTERFACE CARD

■ Networks between MAGPRO16/96 & REP Panels
■ MAGPRO16 Firmware REV 2.8 or higher Required
■ MAGPRO96 Firmware REV 4.2 or higher Required
■ RS-485 Communication protocol

■ On-board LED indication
■ Power supply from the panel
■ Programming from the panel
■ 1000m transmission distance between modules

MAGPRO-SD1
Addressable Smoke Detector

■ Sensitivity level selectable from the control panel High/Normal/Middle/Low
■ Day/Night mode
■ Low profile design
■ LED indication with 360° visibility
■ Certified to EN54-7
■ Base ordered separately see MAGPRO-DB, MAGPRO-DBS and MAGPRO-DBS

MAGPRO-HD1
Addressable Heat Detector

■ Can work as a fixed temperature or rate of rise detector
■ Class A1R, A2S, BS selectable from the control panel
■ Day/Night mode
■ Low profile design
■ LED indication with 360° visibility
■ Certified to EN54–5
■ Base ordered separately see MAGPRO-DB, MAGPRO-DBS and MAGPRO-DBS

MAGPRO-HSD1
Addressable Combined Smoke & Heat Detector

■ Sensitivity selectable from the control panel -High/Normal/Middle/Low
■ Class A1R temperature sensor (according to EN54-5)
■ Day/Night mode
■ Low profile design
■ LED indication with 360° visibility
■ Certified to EN54–5/7
■ Base ordered separately see MAGPRO-DB, MAGPRO-DBS and MAGPRO-DBSS

MAGPRO-DB
Detector Base

MAGPRO-DBS
Sounder Base

MAGPRO-DBSS
Sounder Strobe Base

MAGPRO-DBSC
Detector Base Cover Blank Plate

MAGPRO-WS
ADDRESSABLE SOUNDER

- Piezo sounder
- Adjustable sound level - 92dB/100 dB
- 32 sound types selectable from the panel
- Loop synchronization & powered
- Certified to EN54-3
- Base MAGPRO-DB ordered separately

MAGPRO-WSS
SOUNDER STROBE

- Piezo sounder
- Adjustable sound level - 92dB/100 dB
- 32 sound types selectable from the panel
- Loop synchronization & powered
- Certified to EN54-3
- Base MAGPRO-DB ordered separately

MAGPRO-CPIP67
IP67 RATED MANUAL CALL POINT

- Resettable call point
- Certified to EN54-11-A
- Built in isolator
- IP67 Rated

MAGPRO-CP
MANUAL CALL POINT

- Resettable call point
- Certified to EN54-11-A
- Built in isolator
- IP40 Rated
- Optional protective plastic cover **MAGPRO-CPC**

MAGPRO-WSS23
SOUNDER STROBE

- Certified to EN54-23
- Piezo sounder
- Adjustable sound level - 92dB/100 dB
- 32 sound types selectable from the panel
- Loop synchronization & powered
- Base MAGPRO-DB ordered separately

MAGPRO-WSBIP65
Addressable Fire Alarm Sounder IP65 Base

- Waterproof deep base for MAGPRO addressable sounders
- Only for use with models; MAGPRO-WS, WSS and WSS23
- Robust IP65 Waterproof base suitable for wall mounting in aggressive outdoor environments
- Includes 2x IP65 cable glands, O-ring & gasket for secure installation

MAGPRO-CPC
Plastic Cover for MAGPRO-CP (Pack of 5)

MAGPRO-PROG
PROGRAMMING TOOL

For reading/writing addresses to Callpoints, detectors, sounders and modules.

- Built in MAGPRO-DB standard base
- Mains or battery powered (4 x 1.5V not included)
- Programming cable included

MAGPRO-IM

LOOP ISOLATOR MODULE

- Protection against short circuit
- Auto reset after short circuit
- 4 x cable entry points
- A maximum of 30 devices between two isolators
- Certified to EN54-17

MAGPRO-MINI

1 INPUT MODULE

- Single volt free contact
- Compact size – 58mm x 25mm x 12mm
- Example applications – Integration of third party control devices
- Compliant to EN54-18

ZRL2

LED INDICATOR PLATE

- Flash rate – permanent
- Current – 28 mA Max
- Operating Voltage Range – 5-28V DC

BAT18

12V – 17.0AH SLA BATTERY

- 12V 17ah SLA back up battery

DOOR HOLDERS

DR916-24 24V DC Door Holder

DR916-240 240V AC Door Holder

DR916-FMB Floor Mounting Bracket

DR916-KP Spare Keeper Plate

MAGPRO-R MAINS RELAY OUTPUT MODULE WITH ISOLATOR

- Suitable for control of 240VAC voltage circuits up to 5A
- Loop powered
- Built in isolator
- Compliant to EN54-18
- Example application – AC 240V door magnet override

MAGPRO-0i4O 4 OUTPUT MODULE WITH ISOLATOR

- 4 Relay outputs
- Loop powered
- Built in isolator
- Certified to EN5-18
- Example applications – Shutdown of ventilation equipment and door override

MAGPRO-4i0O 4 INPUT MODULE WITH ISOLATOR

- 4 Monitored Inputs
- Loop powered
- Built in isolator
- Certified to EN54-18
- Example applications – Input from external equipment, extinguishing/sprinkler panel

MAGPRO-2i2O 2 INPUT 2 OUTPUT MODULE WITH ISOLATOR

- 2 Monitored Inputs
- 2 Outputs
- Loop powered
- Built in isolator
- Certified to EN54-18
- Example application – Link to monitoring station signalling devices

MAGPRO-1OSi CONVENTIONAL SOUNDER MODULE WITH ISOLATOR

- Integrate conventional sounders into an addressable system
- Loop powered
- Built in isolator
- Requires 24V PSU
- Compliant to EN54-18

MAGPRO-CZM CONVENTIONAL ZONE MODULE WITH ISOLATOR

- Integrate conventional detectors into an addressable system
- Max number of detectors in one zone – 32
- Loop powered
- Built in isolator
- Certified to EN54-18
- Example applications – Integrate conventional equipment i.e. beam detectors

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- MAG2P 2 zone fire panel
- 6 x PSD-2 Optical smoke detectors complete with bases
- 2 x SCP-2R Resettable call points
- 2 x BA-2R Banshee sounders
- 1 x BAT7 12v 7.0ah SLA battery

FLK2P
2 Zone Conventional Fire Alarm Kit

- MAG4P 4 zone fire panel
- 5 x PSD-2 Optical smoke detectors complete with bases
- 1 x FHD-2 Fixed temperature heat detector complete with base
- 2 x SCP-2R Resettable call points
- 2 x BA-2R Banshee sounders
- 1 x BAT7 12v 7.0ah SLA battery

FLK4PH
4 Zone Conventional Fire Alarm Kit

MAG2P
2 Zone Fire Panel

(CPR COMPLIANT) (EN54) (CE) (Made in EU) (RoHS COMPLIANT 2002/95/EC)

- 2 programmable zones
- Active end of line monitoring and head removal
- 30 fire detectors per zone
- Unlimited number of call points per zone
- Integral sound alarm button
- 'Class change' facility
- Enable/disable security key
- One man walk test facility
- Volt free fire change over relay
- Volt free fault change over relay
- Individual sounder circuit fault ID
- Individual zone/sounder isolate
- CE certified to EN54 P2/4
- Requires only 1x12v battery
- MAG2P - ABS casing

Inputs	
Max Detectors Per Zone	30
Thresholds for Zone Conditions	0 - 2 mA (Fault condition) 2 - 6 mA (Normal condition) 6 - 110 mA (Fire condition) 110 mA – Short (Fault condition)
Power	
Mains Fail Consumption	50mA
Mains Supply	230 VAC ± 10%
Standby Supply	1 x 7ah 12V S.L.A. Battery
Power Availability	0.7 amps
Outputs	
Sounder 1	24V (max 300mA fused)
Sounder 2	24V (max 300mA fused)
Fault/Fire Relay	Volt free 500mA @ 24V (max load)
Auxiliary Output	24VDC (300mA fused)
Environment	
Working Temperature	0 to 40°C
Storage Temperature	–20 to 60°C
Humidity	0 - 95%
Dimensions MAG2P	340 x 290 x 100mm
Dimensions MAG2	200 x 290 x 80mm
Weight	MAG2P - 2.1Kg MAG2 - 2.7Kg

MAG2
2 Zone Fire Panel - Metal Casing

MAGBAR2/4
Spare Barrel & key for use with MAG 2 & 4

MAG4P
4 Zone Fire Panel

(EN54) (CE) (Made in EU) (RoHS COMPLIANT 2002/95/EC) (CPR COMPLIANT)

- 4 programmable zones
- Active end of line monitoring and head removal
- 30 fire detectors per zone
- Unlimited number of call points per zone
- Integral sound alarm button
- 'Class change' facility
- Enable/disable security key
- One man walk test facility
- Volt free fire change over relay
- Volt free fault change over relay
- Individual sounder circuit fault ID
- Individual zone/sounder isolate
- CE certified to EN54 P2/4
- Requires only 1x12v battery
- MAG4P - ABS casing

Inputs	
Max Detectors per Zone	30
Thresholds for Zone Conditions	0 - 2 mA (Fault condition) 2 - 6 mA (Normal condition) 6 - 110 mA (Fire condition) 110 mA – Short (Fault condition)
Power	
Mains Fail Consumption	50mA
Mains Supply	230 VAC ± 10%
Standby Supply	1 x 7ah 12V S.L.A. Battery
Power Availability	0.7 amps
Outputs	
Sounder 1	24V (max 300mA fused)
Sounder 2	24V (max 300mA fused)
Fault/Fire Relay	Volt free 500mA @ 24V (max load)
Auxiliary Output	24VDC (300mA fused)
Environment	
Working Temperature	0 to 40°C
Storage Temperature	–20 to 60°C
Humidity	0 - 95%
Dimensions MAG4P	340 x 290 x 100mm
Dimensions MAG4	320 x 220 x 80mm
Weight	MAG4P - 2.5Kg MAG4 - 3.5Kg

MAG4
4 Zone Fire Panel - Metal Casing

MAGBAR2/4
Spare Barrel & key for use with MAG 2 & 4

MAGZC-816
4 Zone Expander Card

MAGSC-816
4 Zone Sounder Expander Card

MAGFMK
Flush Mount Kit for MAG816

MAGBAR816
Spare Barrel & Key

MAG816
8 Zone Fire Panel Expandable to 16 Zones

- Up to 16 programmable zones
- Up to 16 sounder circuits
- Active end of line monitoring and head removal
- Up to 32 fire detectors per zone
- Unlimited number of call points per zone
- Integral sound alarm button
- Repeater facility and 'Class change' facility
- Enable/disable security key
- One man walk test facility
- Volt free fire/fault change over relay
- Individual sounder circuit fault ID
- Individual zone/sounder isolate
- Alarm delay options
- CE certified to EN54 P2/4
- Requires 1 x 12V battery
- ABS casing

Inputs	
Max. Detectors per Zone	32
Thresholds for Zone Conditions	0 – 2 mA (Fault condition) 2 – 10 mA (Normal condition) 10 – 110 mA (Fire condition) 110mA – + Short (Fault condition)
Power	
Mains Fail Consumption	130mA (1 zone expander) 260mA (4 zone expanders)
Mains Supply	230 VAC ± 10%
Standby Supply	1 x 18ah 12V S.L.A. Batteries
Power Availability	0.7 amps
Outputs	
On Board Sounder Circuits (4)	300mA @ 24V fuse resettable (PTC)
Sounder Expander Cards (4)	150mA @ 24V fuse resettable (PTC)
Fault/Fire Relay	Volt free 500mA @ 24V (max load)
Auxiliary Output	24VDC (300mA fused)
Environment	
Working Temperature	0 to 40°C
Storage Temperature	-20 to 60°C
Humidity	0 to 93%
Dimensions (mm)	456 x 350 x 125mm
Weight	4.2 KG

FIRE ZONE / SOUNDER OUTPUT MATRIX

Number of zone cards fitted	2	3	4	2	3	1	2	1
Number of sounder cards fitted	0	0	0	1	1	2	2	3
Number of zones	8	12	16	8	12	4	8	4
Number of sounder outputs	4	4	4	8	8	12	12	16

NB The MAG816 features 4 sounder circuits. Space is provided for up to 4 extra expansion cards of any combination. Sounder cards carry 4 sounder circuits, Zone cards carry 4 fire zones. The MAG816 is supplied as standard with 8 fire zones and 4 sounder circuits.

CSD2
Combined Optical Smoke & Fixed Heat Detector

Type	Conventional
Approval	EN54-7, EN54-5
Class	A1R
Operating Voltage	9 - 30VDC
Standby Current @ 24v	< 60µA
Alarm Current @ 24v	49mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Simulated Smoke/ Heat

FHD2
Fixed Temperature Heat Detector

Type	Conventional
Approval	EN54-5
Class	A2S
Operating Voltage	9 - 30VDC
Standby Current @ 24v	< 60µA
Alarm Current @ 24v	49mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Heat Source

These MAGfire detectors have been developed to provide a perfect compliment to the MAGfire MAG panels. All detectors are supplied with a diode base. Fully compliant with CPR and approved to EN54 standards.

PSD2
Optical Smoke Detector

Type	Conventional
Approval	EN54-7
Class	N/A
Operating Voltage	9 - 30VDC
Standby Current @ 24v	< 60µA
Alarm Current @ 24v	49mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Simulated Smoke

RHD2
Rate of Rise Heat Detector

Type	Conventional
Approval	EN54-5
Class	A1R
Operating Voltage	9 - 30VDC
Standby Current @ 24v	< 60µA
Alarm Current @ 24v	49mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Heat Source

CSD212
Combined Optical Smoke & Fixed Heat Detector

Type	Conventional
Approval	EN54-7, EN54-5
Class	A1R
Operating Voltage	9 - 30VDC
Standby Current @ 12v	< 50µA
Alarm Current @ 12v	29mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Simulated Smoke/ Heat

FHD212
Fixed Temperature Heat Detector

Type	Conventional
Approval	EN54-5
Class	A2S
Operating Voltage	9 - 30VDC
Standby Current @ 12v	< 50µA
Alarm Current @ 12v	29mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Heat Source

The new range of MAGfire detectors have been developed to provide a perfect compliment to 12V hardwire intruder alarm systems. All detectors are supplied with a relay base. Fully compliant with CPR and approved to EN54 standards.

PSD212
Optical Smoke Detector

Type	Conventional
Approval	EN54-7
Class	N/A
Operating Voltage	9 - 30VDC
Standby Current @ 12v	< 50µA
Alarm Current @ 12v	29mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Simulated Smoke

RHD212
Rate of Rise Heat Detector

Type	Conventional
Approval	EN54-5
Class	A1R
Operating Voltage	9 - 30VDC
Standby Current @ 12v	< 50µA
Alarm Current @ 12v	29mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Heat Source

- Up to 50m range
- Expandable to 120m with the BD1LRK
- Integral laser alignment
- Auto Align automatic beam alignment
- 24v DC 35mA max current draw
- EN 54-12 approved

BD1
50m Beam Detector expandable up to 120m

- Kit for extending BD1 range up to 120m

BD1LRK
BD1 Reflective Long Range Kit

SCP2R
Resettable Call Point

- Surface or flush mounting
- Complete with surface back box
- Spare cover available - SCP2R-CVR

SCP2R-CVR
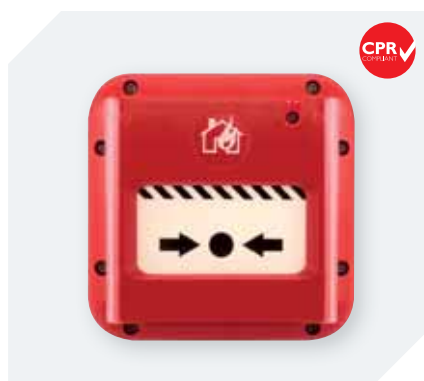Plastic Cover for SCP2R (Pack of 5)

ZRL2
LED Indicator Plate

- Flash rate - permanent
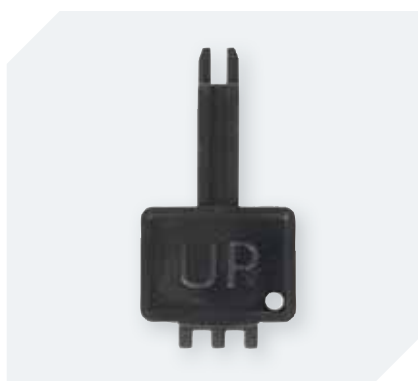- Current - 28 mA Max
- Operating Voltage Range - 5-28V DC

BA-2W
White Banshee Sounder

- Sound Output @ 1m 89 - 110 dBA
- Current - 3-39 mA
- IP Rating - IP45

SCP2RIP67
IP67 Rated Manual Call Point

- Resettable call point
- Certified to EN54-11-A
- IP67 Rated

SCP2RK
Reset Key

Spare Keys for MAGPRO-CP,MAGPRO-CPIP67, SCP2R &
SCP2RIP67 (Pack of 5)

BA-2R
Red Banshee Sounder

- Sound Output @ 1m 89 - 110 dBA
- Current - 3-39 mA
- IP Rating - IP45

CB-1R
Banshee Sounder and Strobe

- Sound Output - 89-110 dBA
- Flash rate - 60/minute
- Current - 40 mA plus sounder
- IP Rating - IP45

CB-1RIP66
Waterproof Sounder and Strobe

- Sound Output – 89-110 dBA
- Flash rate – 60/minute
- Current – 40 mA plus sounder
- IP Rating – IP66

FS1L
LED strobe

- Flash rate – 60/minute
- 12V & 24V (80mA & 30mA)
- IP Rating – IP65

MAGSWS
White Surface Sounder

- Sound Output @ 1m 86 – 96 dBA
- Current – 6mA @ 24VDC
- IP Rating – IP21

MAGSRS
Red Surface Sounder

- Sound Output @ 1m 86 – 96 dBA
- Current – 6mA @ 24VDC
- IP Rating – IP21

MAGBSW
White Bedhead Sounder

- Sound Output @ 1m 86 – 96 dBA
- Current – 6mA @ 24VDC
- IP Rating – IP21

MAGBSR
Red Bedhead Sounder

- Sound Output @ 1m 86 – 96 dBA
- Current – 6mA @ 24VDC
- IP Rating – IP21

MAGSSTRWS
White Surface Sounder with Strobe

- Sound Output @ 1m 86 – 96 dBA
- Flash Rate – 40/Minute
- Current – 14mA @ 24VDC
- IP Rating – IP21

MAGSSTRRS
Red Surface Sounder with Strobe

- Sound Output @ 1m 86 – 96 dBA
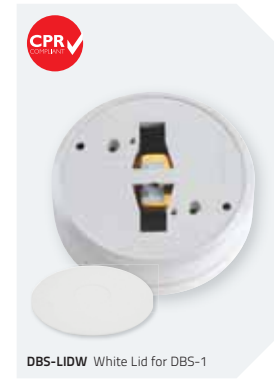- Flash Rate – 40/Minute
- Current – 14mA @ 24VDC
- IP Rating – IP21

IFB
Internal Fire Bell

- Sound Output – 95 dBA
- Current – 11 mA
- 6" diameter
- IP Rating – IP21C

SD-DB
Detector Deep Base

- Allows for mounting in surface cable entry application or on a rough, uneven surface
- Can be used as an adaptor plate for addressable sounder base
- Compatible with: MAGPRO-DB, MAGPRO-DBS, MAGPRO-DBSS, PSD2, CSD2, PSD212, CSD212

DBS-LIDW White Lid for DBS-1

DBS-1
Detector Base Sounder

- Sound Output @ 1m – 93 dBA
- Current - 18 mA

24V BOXED POWER SUPPLIES

BPS-1 24V 1 Amp Boxed Power Supply

BPS-2 24V 2 Amp Boxed Power Supply

BPS-5 24V 5 Amp Boxed Power Supply

Nb Boxed power supplies require 2 x 12V batteries (not supplied)

EN54-4 POWER SUPPLIES

BPS2EN EN54-4 2A PSU

BPS5EN EN54-4 5A PSU

BA-DB
Base for sounder BA-2R, BA-2W and CB-1R to make IP Rated

BAT32
12V – 3.2AH SLA BATTERY

- 12V 3.2ah SLA back up battery

BAT7
12V – 7.0AH SLA BATTERY

- Back up battery for EVBPSBB, MAG2P, MAG2, MAG4P and MAG4

BAT18
12V – 17.0AH SLA BATTERY

- 12V 17ah SLA back up battery

MAGLB
FIRE SAFETY LOG BOOK

- Ensure system records are maintained in accordance with BS5839-1
- Contains test procedures, frequencies of service & maintenance requirements
- Clear data tables for evidence of system services, tests and inspections
- A4

MAGR
8 ZONE RELAY MODULE MAG816

- Expander module providing 8 relay switches for zone activation
- Separate zone (max. 8) activation in fire condition
- N.O & N.C options

MAGAUXISORP
AUXILIARY ISOLATION SWITCH (RED)

- Suitable for mains switching up to 8 amp
- Secure key switch enables safety for maintenance and offers protection against tamper
- External trigger option
- Programmable internal buzzer for activation
- Clear operation LED indication
- Surface or recess mount

MAGAUXISOWP
AUXILIARY ISOLATION SWITCH (WHITE)

- Suitable for mains switching up to 8 amp
- Secure key switch enables safety for maintenance and offers protection against tamper
- External trigger option
- Programmable internal buzzer for activation
- Clear operation LED indication
- Surface or recess mount

DOOR HOLDERS

DR916-24	24V DC Door Holder
DR916-240	240V AC Door Holder

DR916-KP   Spare Keeper Plate
- For use with DR916-24 and DR916-240

DR916-FMB
FLOOR MOUNTING BRACKET

- For use with DR916-24 and DR916-240

MAGISORP
FIRE ISOLATION SWITCH (RED)

- Complies with BS5839 Part1
- Isolates the mains voltage supply to the fire system
- Enables safety for maintenance and offers protection against tamper
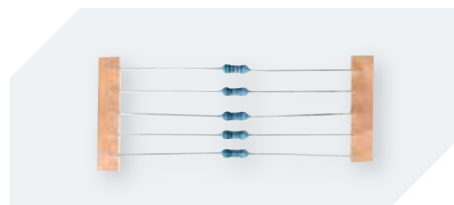- Both the live and neutral supply is switched

MAGISOWP
FIRE ISOLATION SWITCH (WHITE)

- Complies with BS5839 Part1
- Isolates the mains voltage supply to the fire system
- Enables safety for maintenance and offers protection against tamper
- Both the live and neutral supply is switched

MAGEOL
ZONE MODULE

- End of line zone module (Pack of 5)
- For conventional panels

MAGEOL-S
SOUNDER MODULE

- End of line sounder module (Pack of 5)
- For conventional panels

MAGISOPFUSE
FIRE ISOLATION SWITCH SPARE FUSES

- Spare fuses for MAGISORP – Fire Isolator Switch

MAGISORPK
FIRE/AUXILIARY ISOLATION SWITCH SPARE KEY

- Spare key for MAGISORP & MAGAUXISORP