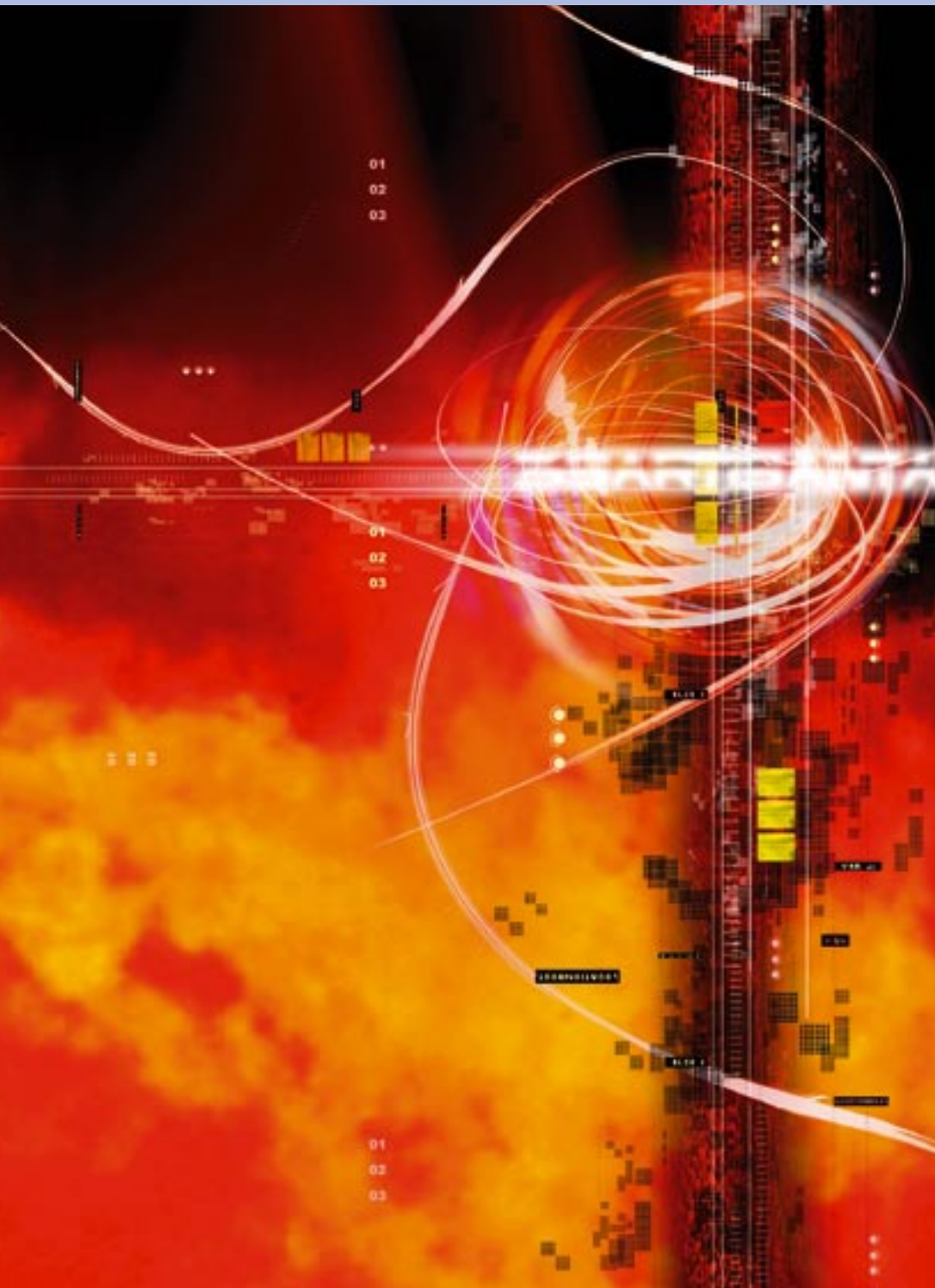


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Section 5:

System 800 Addressable Fire Detection & Alarm System



5: ADDRESSABLE FIRE DETECTION

10 reasons to specify 800

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1 **'Plug and Play'** A user friendly panel not requiring special software tools to commission the system, providing true 'Plug and Play' capability.

2 **Easy to use** All data is entered via easy to use 'Form Fill' menus as a guide through the data entry process, saving valuable commissioning time.

3 **Flexibility** A 1KM single loop with up to 127 addressable system devices gives the user flexibility to meet all the requirements of small to medium sized installations.

4 **Addressability at a conventional cost** Conventional detectors teamed up with an addressable base, offers the benefit of an addressable system at an attractive cost.

5 **Maintained integrity** 24 zones of detection are supported and each device can 'short circuit handle', maintaining system integrity under fault conditions.

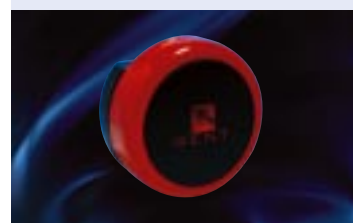
6 **Clear labelling** Both zones and devices can have 32 character text labels. This gives devices meaningful descriptions, allowing fires or faults to be located quickly.

7 **Cost savings** Flexible alarm circuit configurations are possible and all sounder circuits are compatible with conventional electronic sounders and bells, giving the system designer the ability to choose the most cost effective solution.

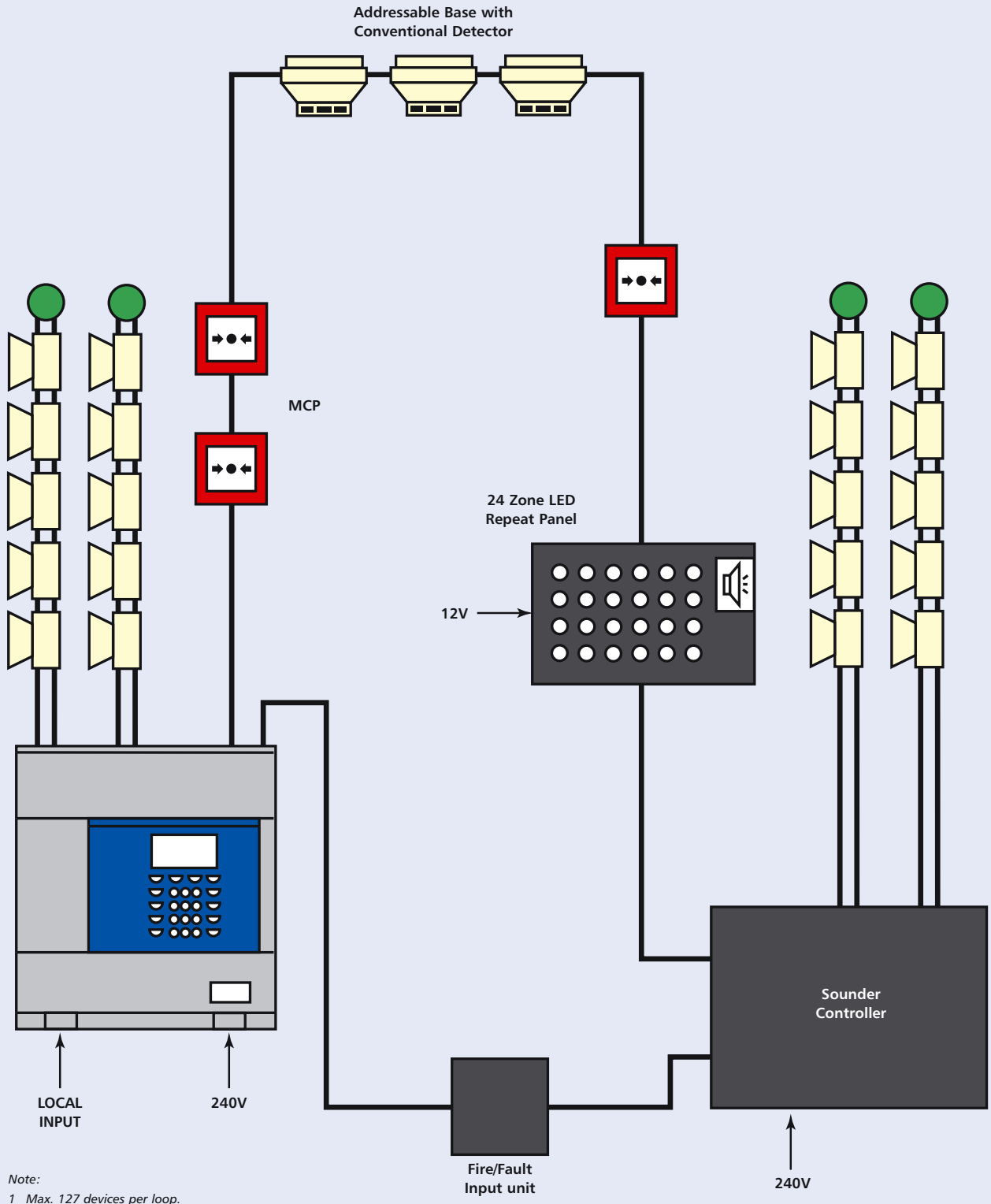
8 **Supports other products** Inputs from other systems such as an existing fire panel, manual call points or beam / flame detectors can be supported. Relay outputs are available for actioning plant shutdown in the event of a fire.

9 **Extra features** A host of other features are available such as class change, weekly fire test, sounder delay functions, coincidence detection and maintenance reminders triggered by the panel's real time clock.

10 **Compliance with the relevant industry standards** GENT are LPCB approved for both systems and products and the 800 is designed to comply with EN 54.



System Architecture



Note:
 1 Max. 127 devices per loop.
 2 Maximum loop length is 1km.
 3 This schematic is for guidance only, please refer to product instructions during installation.

5: ADDRESSABLE FIRE DETECTION

System 800

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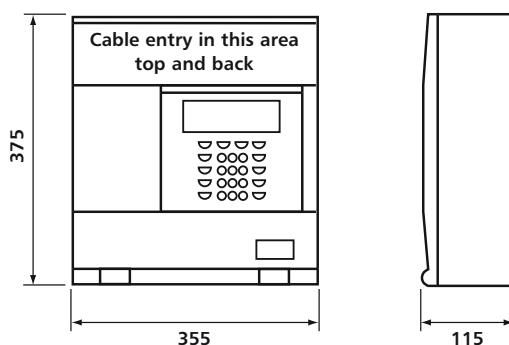


800 Control Panel

TECHNICAL SPECIFICATION	
Mains Voltage	230 V/ 50-60 Hz
Operating Temperature	0°C to +50°C
Loop Operating Voltage	9-19V dc
Panel Quiescent Current	Approximately 50mA
Sounder Circuits	2 x 0.45A each
Approx Weight	3.1 Kg (excluding batteries)
Ingress Protection	IP31
Standby Period (fully loaded system)	72 hours + 30 minutes alarm load
Relevant Standard	EN 54 Parts 2&4

Note: Cable entry is via the top of the panel using the 20mm knockouts or the back of the panel in the area indicated using the 20mm entry holes.

Dimensions (mm)



The System 800 single loop addressable control panel is an easy to use EN 54: Part 2 & 4 compliant panel.

The System 800 panel is feature rich including a 1km loop, 24 zones, 127 devices, flexible sounder circuit design and input/output facilities which allows the system designer to satisfy all the requirements of a fire alarm system in one easy to use package.

This provides small to medium sized buildings with a comprehensive fire protection system at an affordable price.

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Control Panel	788802
Less Batteries	788802-LB

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5: ADDRESSABLE FIRE DETECTION

800 System Devices



Smoke Detector



Heat Detector



Addressable Detector Base

ORDER CODES

Optical Smoke Detector	17840-01
Ionisation Smoke Detector	17830-01
Dust Cover (50)	17890-02
Fixed Temperature Heat Detector	17850-01
Rate of Rise Heat Detector	17860-01
High Fixed Temperature Heat Detector	17870-01
Detector Base	781486
Detector Removal Tool	17918-30

Detectors

A standard range of LPCB approved conventional smoke and heat detectors are available for use with the detector base module. The removal of a detector from the base module is reported by the panel but does not affect the operation of any other devices on the loop.

7800 SERIES SMOKE DETECTORS

Nominal Voltage Range	9 - 28V dc
Quiescent Current	Optical 60 μ A Ionisation 30 μ A
Ingress Protection	IP30
Approx Weight	0.11 Kg
Operating Temperature	-10°C to + 50°C
Approval	LPCB approved to EN 54-7
Dimensions (mm)	104 dia x 50 deep

7800 SERIES HEAT DETECTORS

Nominal Voltage Range	9 - 28V dc
Quiescent Current	20 μ A
Ingress Protection	IP30
Approx Weight	0.07 Kg
Operating Temperature	-10°C to + 50°C
Approval	Fixed temp and rate of rise are LPCB approved to EN 54-5
Dimensions (mm)	104 dia x 50 deep
Trigger Temperatures	Fixed Temp 58°C Grade 1 Rate of Rise 58°C Grade 1 High Temp 85°C Range A

SYSTEM 800 ADDRESSABLE DETECTOR BASE

Quiescent Current	50 μ A
Ingress Protection	IP30
Approximate Weight	0.07 Kg
Operating Temperature	-10°C to + 50°C
Dimensions (mm)	104 dia x 21 deep

SOUNDER CONTROLLER

Mains Voltage	230V/50 Hz
Battery	2 x 12V 2.1 Ah
Sounder Circuit	2 x 0.5A with 10K ohm monitoring resistor
Aux Supply	24V @ 0.5A
Approx Weight	3.3 Kg
Housing	Steel painted RAL 7024
Dimensions (mm)	317 W x 248 H x 83 D
Ingress Protection	IP31

5: ADDRESSABLE FIRE DETECTION

800 System Devices

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Call Points

A standard break glass and key operated call point is available for use with the System 800 control panel.

The key operated callpoint prevents unauthorised operation in areas with a high risk of tampering or vandalism.

SYSTEM 800 MANUAL CALL POINTS	
Quiescent Current	45 μ A
Ingress Protection	IP54 with gasket
Approx Weight	0.17 Kg
Operating Temperature	-20°C to + 50°C
Dimensions (mm)	88 sq x 50 deep

Call Point Accessories

Pack of 10 test keys for testing call points without breaking the glass.

Weather resistant kit, providing weather resistance to IP54.

Pack of 10 spare glasses.

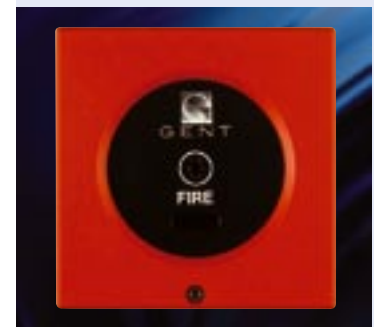


LED Repeat Panel

The repeat panel indicates which of the 20 zones are in a fire condition via individual LEDs which have positions for labels adjacent to each LED. Any fault and disablement conditions on the main panel are indicated by single LEDs on the repeat panel. The user is alerted to fire, fault and disablement condition via the integral buzzer which can be silenced locally.



Standard Call Point



Key Operated Call Point



Door Holder

ORDER CODES

LED Repat Panel	804792
Standard Call Point	806120R-EN
Key Operated	806021R
W/R Kit	14112-19
Spare Keys	14112-10
Spare Glasses	14112-09
Door Release 24V	04390-31
Door Release 240V	04390-55
Door Holder Floor Plate	04390-92
Door Plate Assembly (spare)	04390-99

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5: ADDRESSABLE FIRE DETECTION

800 System Features



Bell



Shallow Base Sounder



Relay Unit

System 800

- Single loop addressable
- 24 Zones
- 127 Devices per loop
- 32 Character device and zone Labels
- Short circuit isolators in each device
- Soft addressed on power up of the panel
- Max 1 km loop length based on 2 core fire rated 1,5 mm² cable
- 2 x 24V dc monitored master alarm outputs @ 0.45A each
- Auxiliary supply 24V dc 0.5A max
- 72 hr standby + 30 min alarm battery capacity
- Local monitored input for fire, class change and evacuate
- Auxiliary c/o contact rated 2A @ 30V dc configurable as:
 - Common Fire (reset on Silence Alarms or Panel Reset)
 - Common Fault
 - Common Disablement
 - Prefire
- Separate common fire output and common fault output contacts rated 2A @ 30V dc
- Delay/verify facility
- False alarm rejection facility
- Detector to detector coincidence
- Zone to zone coincidence
- Monitored manned centre link (MCL) output
- System labelled via keypad or software labelling tool
- Compatible with Gent 7800 conventional detector range
- System access levels all password protected
- Simple default "One Out All Out" configuration
- Weekly test reminder
- Maintenance due reminder
- One line of user defined text displayed on the panel
- Zone to sector output linking

ORDER CODES

Bell 24V DC	12141-04
Sounder Deep Base	74452-24NM
Sounder Shallow Base	74451-24NM
Relay Units Boxed (for switching 230V)	19107-52