

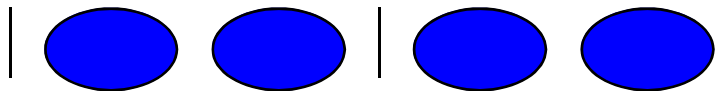
Precept^{en}

Conventional Control Panels



Key Features

- ◆ From 2 to 32 zones (up to 32 detectors per zone)
- ◆ EN54-2 approval by LPCB
- ◆ Comprehensive end-user facilities (access level 2)
- ◆ Designed & built using the latest technology for optimum performance and consistently high quality
- ◆ Extensive configurable facilities for the engineer via DIL switches
- ◆ 4 alarm circuits as standard (4 zone panel and above)
- ◆ Up to 5 fully-functional repeaters - 2-wire RS485
- ◆ Range of EN54 compliant power supply modules, designed to meet the specific load requirements of each size panel
- ◆ Zonal one-man test feature and sounder one-man test facility
- ◆ Short Circuit to fire setting for use with older type detectors
- ◆ Panel inputs for class change, evacuate, silence alarms, system reset
- ◆ 3 open collector outputs for evacuate, buzzer active, disablement active
- ◆ Auxiliary supply output - monitored fuse
- ◆ Panel expansion boards for open collector, relay and alarm outputs
- ◆ Optional timer clock/counter module

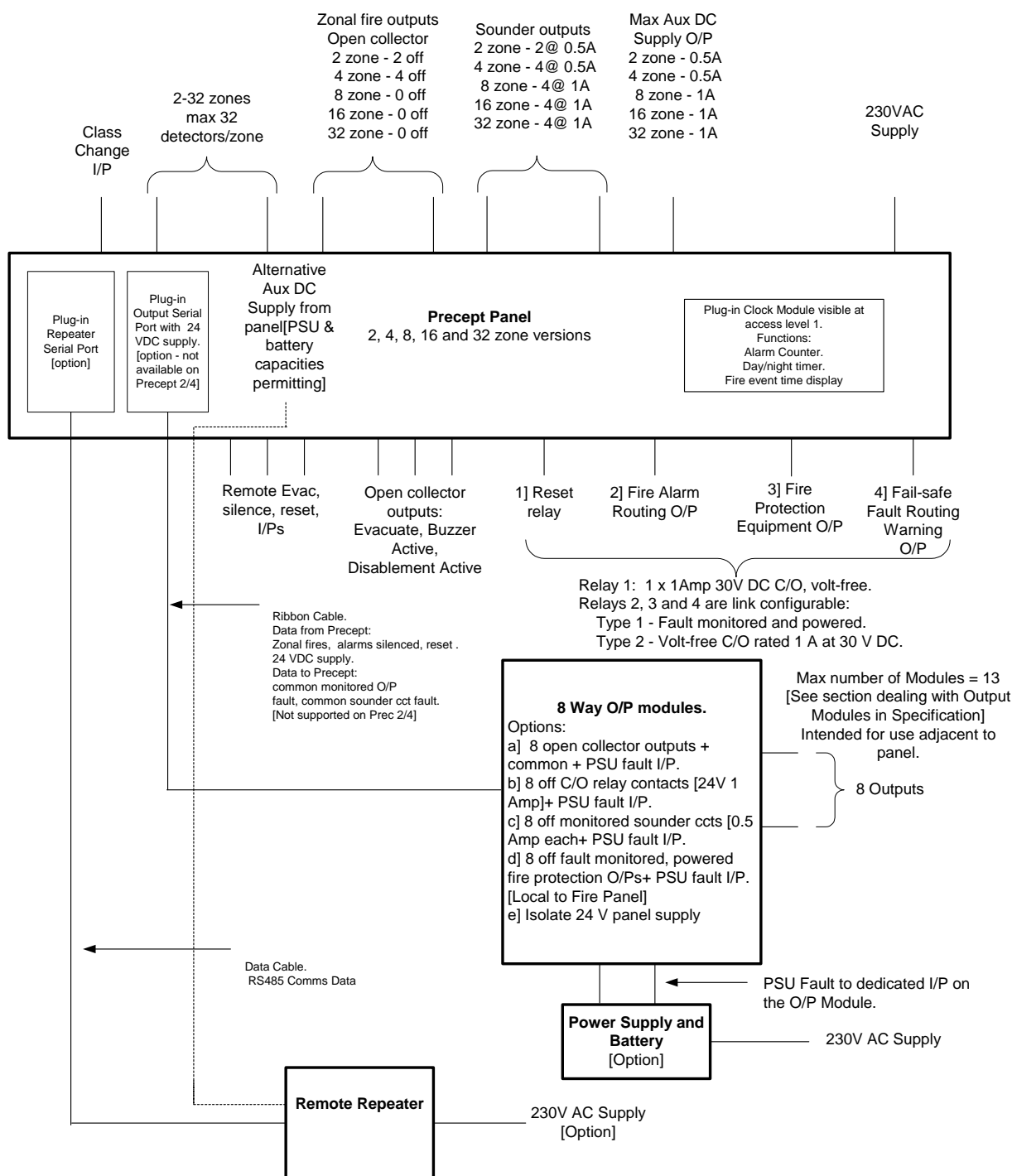


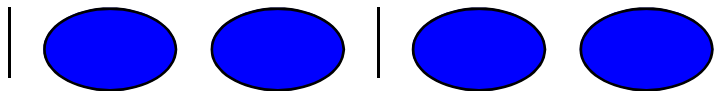
Introduction

The **Precept^{en}** range of conventional control panels is a powerful yet user-friendly series of control panels. They are designed and manufactured to a high standard and will shortly be approved by the Loss Prevention Certification Board (LPCB) to EN54-2 and EN54-4. The **Precept^{en}** range has earned a reputation over many years for quality and reliability and is recognised as market leader in many countries around the world. This latest generation takes advantage of the very latest technological advancements both in terms of design and manufacturing techniques to meet the exacting requirements of the latest European standards.

Each panel in this series has extensive configuration options but is easy to install, programme and operate. This is supported by comprehensive documentation on commissioning, operation & maintenance.

The panels are designed for use with a wide range of manufacturers' detectors. A complete range of fully-flush and semi-flush bezels can be supplied for all **Precept^{en}** control panels. There is also a comprehensive range of other compatible equipment such as repeaters, relays and power supply units, available to meet customer requirements.

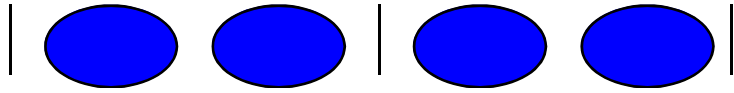




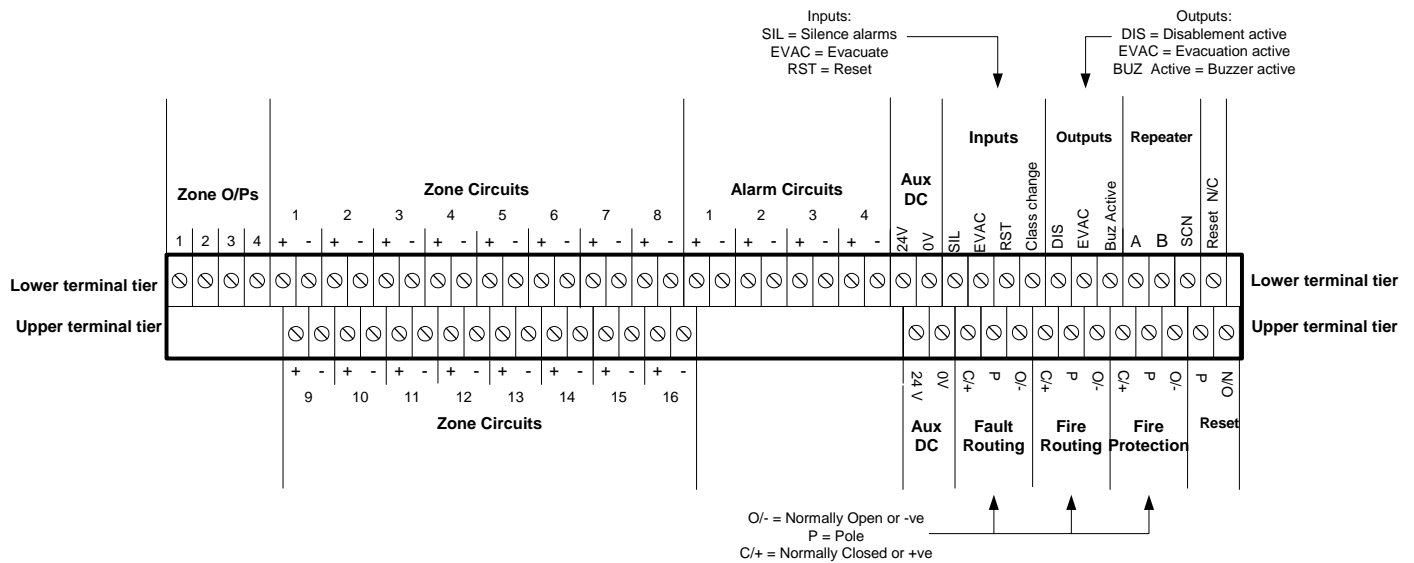
Precept Facilities in Detail

Switching regulator power supplies with temperature — compensated battery charging	High efficiency voltage regulation. Battery-charging voltage automatically adjusted between 28.6 and 26.5 V DC over an ambient temperature range of -5 to +40 deg C.
Battery disconnect	Protects the battery from permanent damage due to over discharge by automatically disconnecting it when the battery voltage falls to 19.5V.
Class change input	Operates all sounders for up to 5 seconds.
Configurable detection zones	Simple and flexible display-based configuration process, allowing detection zones to be configured as either: <ul style="list-style-type: none">o Latching/non-latching.o Delayed/non-delay.o Standard/Intrinsically Safe mode. Factory configuration: Latching, non-delay, standard [non-I.S.]
Active fault monitoring on the detection zone wiring. [Non – Intrinsically Safe applications only]	Reduces zone monitoring current and reduces the required battery capacity. Maintains total detector availability following the removal of a detector.
Selectable Zonal or General alarm sounder operation with sounders in alert or silent in adjacent zones.	Selectable via DIL switches on the motherboard. The standard sounders on the 2 and 4 zone panels can be used in General or Zonal modes. The output expansion system [available later] provides additional sounders circuits for General or Zonal use on the 8, 16 and 32 zone panels.
Configurable Fire Routing, Fire Protection and Fault Routing output relays	Configuration links on the motherboard allow each relay to be individually selected to the EN54 powered/fault monitored mode or volt –free changeover. Factory configuration - “EN54 Mode”.
Reset Relay	A volt-free changeover contact operating for 10 seconds on panel fire reset.
Auxiliary 24 V DC power supply output	Protected by an electronic fuse and reset by operating reset switch. Operation of the fuse is indicated on the display.
Open collector outputs	<ul style="list-style-type: none">o Evacuate Active.o Buzzer Active.o Disablement Active.o Zonal fire for each zone up to zone 4. Zonal output expansion on 8-32 zone versions [availability tba].
Remote inputs	Remote evacuation. Silence alarms. Reset.
Earth Fault monitoring	Can be disabled via link on the motherboard.
Zone/Output disablement feature	Each zone along with the Fire Routing, Fire Protection, Fault Routing and sounder circuits can be independently disabled/enabled.
One Man Zone Test	Each zone can be independently set to the One Man test condition. Sounders can be configured to operate briefly to confirm the fire panel has detected the test fire or the test may be configured for no sounder operation.
One Man Sounder Test	Operates the sounders intermittently.
Configurable Delay Mode Facility	Flexible system allowing: <ul style="list-style-type: none">o Any zone to be configured as a delay zone.o Single or two-stage delay.o 1 to 9 minute delay [for single stage or second stage of 2-stage delay].o Selection of the output to be delayed [Fire Routing, Fire Protection, Sounders] – can be any combination.
Other configuration features	<ul style="list-style-type: none">o “Short circuit to fire” for use with older type detectorso To prevent the Fire Protection output operating from a fire condition on a “Non-Latch” zone.o To inhibit the silencing and resetting of the panel for 3 minutes following the occurrence of a fire alarm.o To set the sounders to operate only when the panel is in the Evacuate condition.o To inhibit the resetting of the fire alarm condition until the alarm sounders have been silenced.o To disable the panel buzzer.o To select latching fault mode where all fault conditions latch until the panel is manually reset.o Restore default configuration of zones and outputs to be delayed.
Repeater panels	Supporting up to 5 repeaters via RS485 comms.

Precept^{en}



Typical Termination Arrangement (Precept^{en} 16 zone)



Optional Enhancements

- ◆ 4 options for 8-way output modules (See schematic diagram)
- ◆ Semi-flush bezels
- ◆ Fully-flush bezels
- ◆ Matching cabinets to house enhancement boards and power supplies
- ◆ Matching style repeater panels (Locally and panel powered)
- ◆ Timer clock/counter module, factory set as either day/night and alarm counter or fire alarm clock display

Ordering Details

Part Number	Description
2605/100	Precept ^{en} 2 zone panel
2605/101	Precept ^{en} 4 zone panel
2605/102	Precept ^{en} 8 zone panel
2605/103	Precept ^{en} 16 zone panel
2605/104	Precept ^{en} 32 zone panel