CPU / LCD Display

Operating environment	Temperature: 0 – 49 °C (32 – 120 °F) Humidity: 93 %RH, non-condensing
Current requirements	Standby: 117 mA when connected to PS6;154 mA when connected as a remote repeater Alarm: 135 mA when connected to PS6; 166 mA when connected as a remote repeater

PS6E Power supply card

Main supply circuit	AC input: 230 Vac, 50/60 Hertz DC input: 24 Vdc batteries
Battery charging circuit	Charge current: 2+ amps Charge capacity: 40 amp hours
Smoke/Accessory power output circuit	Voltage: 24 Vdc, regulated Current: 250 mA Terminal size: 0.75 to 2.5 mm²
Auxiliary power output circuits	Quantity: 3 Voltage: 24 vdc full wave rectified Current: 1.5 amps each
Common fire relay	Type: Volt free SPDT Contact rating: 1A Terminal size: 0.75 to 2.5 mm²
Fault, Supervisory and programmable relays	Type: Volt free, normally open Contact rating: 1 amp Terminal size: 0.75 to 2.5 mm²
Operating environment	Temperature: 0 – 49 °C (32 – 120 °F) Humidity: 93 % RH, non-condensing
Current requirements	Standby current: 72 mA Alarm current: 96 mA

ADC Analogue Device Controller

Signaling line circuit	Configuration: Class B or Class A Capacity: 127 analogue devices Terminal size: 0.75 to 2.5 mm² Circuit resistance: 66 ohms Circuit capacitance: 0.3 µf
Sounder circuits (2)	Configuration: Class B or Class A Output voltage: 24 Vdc, nominal Output current: 2.0 A at 24 Vdc for circuit 1 and 2.0 A at 24 Vdc for circuit 2 Terminal size: 0.75 to 2.5 mm² End of line resistor: 10k ohms, ½ W
Sounder power input circuit	Voltage: 24 Vdc, nominal Terminal size: 0.75 to 2.5 mm²
Operating environment	Temperature: 0 - 49° C (32 - 120° F) Humidity: 93 %RH, non-condensing
Current requirements	Standby current: xx mA Alarm current: xx mA (Both NACs on)
Card spaces	Requires one card space.

ADC-EX Analogue device controller expansion loop

Signaling line circuit	Configuration: Class B or Class A Capacity: 127 analogue devices Terminal size: 0.75 to 2.5 mm² Circuit resistance: 66 ohms Circuit capacitance: 0.3 µf
Operating environment	Temperature: 0 – 49 °C (32 – 120 °F) Humidity: 93 %RH, non-condensing
Current requirements	Standby current: xx mA Alarm current: xx mA
Card spaces	Mounts on ADC card.

ZR8 Relay card

Output relays	Style: Normally open or normally closed (jumper configurable) Contact rating: 1 amp @ 30 Vdc resistive. Terminal size: 0.75 to 2.5 mm²
Operating environment	Temperature: 0 – 49 °C (32 – 120 °F) Humidity: 93 %RH, non-condensing
Current requirements	Standby current: 7 mA Alarm current: 18 mA per active relay
Card spaces	Requires one card space.

NT-A Card and PORT232 Card

Cable size	0.75 to 2.5 mm² twisted pair (6 twists per foot minimum)
Circuit resistance	100 Ohms
Circuit capacitance	0.4 µf
Operating environment	Temperature: 0 – 49 °C (32 – 120 °F) Humidity: 93 %RH, non-condensing
Current requirements	Standby: 75 mA Alarm: 75 mA
Card Spaces	Requires one space for the NT-A

ZD20-1, ZD20-2, ZD20-3, ZD20Land ZD12L4S LED/Switch cards

Operating environment	Temperature: 0 - 49 °C (32 - 120 °F) Humidity: 93% RH, non-condensing
Current requirements	Standby: 1mA Alarm: 0.75 mA per active LED

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Product Data

comsec protection systems

ZITON

PS1506.2

The Ziton ZM2 analogue addressable fire detection and alarm control panel, brings big-system intelligent features to small applications. Designed for easy setup and simple installation, the Modula series lives up to its name in every respect. ZM2's exclusive auto-learn function and the option of configuration using either convenient front panel programming or from a PC, makes short work of system setup.

A built-in barcode scanner port enables devices to be brought on line instantly. Simply passing the optional scanner over the device barcode stores information in Modula's QuickStart database. The scanner can also be used for simple text entry when originating custom display messages.

Considering the systems robust features, set up is deceptively simple. The panel can be configured as single loop supporting up to 127 analogue devices (sensors, callpoints, interfaces), or by the addition of a modular analogue device controller, increased to two loops with a total capacity up to 254 analogue addresses.

Modula takes full advantage of Ziton's exclusive ZP analogue addressable technology, providing convenient addressing, automatic device mapping, and environmental compensation.

Innovative design makes it easy to add facilities. Quick-Lok option cards snap onto easily accessible DIN mounting rails. Flexibility in both control and display is provided by 40 programmable front panel switches with dual LEDs.

ZM2 is as simple to operate as it is to set up. Its large 14 line, backlit LCD display provides concise information on up to 1,000 system events, while bright system status LEDs and large, tactile control buttons present the user with a clean, crystal clear interface. Four password levels limit control and information retrieval to authorized personnel.

On sites where control and indication is a requirement at more than a single location, up to eight remote display units can be wired to the panel by serial link connection.

Modula's flexibility, simple setup and operation make it ideal for new installations or in a wide range of refurbishment projects, where the use of existing wiring can often substantially reduce installation costs.

ZM2

Analogue Addressable Control Panel

- **Single or two loop modular system**
- **Complies fully with EN54 Parts 2 and 4**
- **UL versions available – approval pending**
- **Wide range of plug in optional features**
- **Front panel, PC download or bar code programming**
- **Up to eight serial repeater panels**
- **Compatible with all ZP3 loop devices.**

Features

- **1 or 2 loops up to a total of 254 analogue devices**
- **Compatible with all ZP analogue addressable equipment**
- **Failsafe mode ensures uncompromised reliability**
- **Analogue wiring can be Class B (loop) or Class A (spur)**
- **Capacity for eight serial repeater/mimic panels**
- **Four built in volt free system relays**
- **Two built in sounder circuits with Class B (loop) or Class A (spur) wiring options**
- **Three methods of programming: "auto-learn", front panel and personal computer (PC)**
- **Supports optional barcode scanner for direct device data entry**
- **Up to 40 zone indicators with alarm, disable, test and fault indications**
- **Field programmable front panel switch option**
- **Four levels of sensitivity adjustment**
- **Adjustable pre-alarm settings for analogue smoke sensors**
- **Panel enclosures available in red or grey with optional collar for recessed mounting**
- **Large 14-line (224 character) backlit LCD display**
- **Four password levels with level dependent dynamic menus**
- **Message routing by event type or by individual message**
- **Alarm sensitivity by time of day or manual selection**
- **1,000 event history buffer, plus alarm history counter**
- **6 amp Power Supply, 4.25 amps available for external use**
- **EN54 Parts 2 and 4 compliant**
- **UL versions available – approval pending**
- **Compare utility identifies system changes and simplifies testing**

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Standard Facilities

Standard components and optional cards
The ZM2 Modular panel is supplied with a CPU/Display Unit, an Analogue Device Controller (ADC) providing a single analogue loop, a PS6E Power Supply and system enclosure.

All primary system controls and indications, for example Reset, Silence Alarms and Sound alarms, together with facilities for programming and accessing control panel information are included on the front of all standard enclosures.

Available ZM2 option cards provide an additional analogue loop, dialing capability or extra relay outputs for ancillary control. Quick-Lok option cards snap onto standard DIN rail mountings for fast, straight forward installation. One option card space is available.

Repeater/Mimic panels
A matching range of remote repeater units is available on a modular basis, providing a variety of configurations, to match specific requirements. The units feature options from a four line twenty character LCD only, up to complete replications of the main panel control and indications.

Up to eight repeat units can be serially connected to the main ZM2 panel.

CPU/LDC Display
The standard ZM2 standard front panel display provides 14 lines of 16 characters of text detailing event, device, zone, diagnostic and programming information. Its large backlit LCD screen is easy to read and always provides 'at a glance' indication of system status.

PS6E Power supply card
Supplied with each ZM2 panel, the PS6E provides primary dc power to all the circuit cards installed in the cabinet. The unit powers four 24 Vdc power output circuits, three for powering auxiliary applications and one for powering four wire smoke sensors. A circuit for charging standby batteries is also provided.

Common alarm, supervisory and fault relays, together with a fourth user programmable relay are also featured.

ADC Analogue device controller
The card provides a single loop for connecting wiring for up to 127 analogue addressable devices. The ADC also features two conventional sounder circuits. The analogue device controller is supplied as part of the ZM2 control panel.

ADC-EX Analogue device controller expansion loop
The expansion loop controller mounts onto the ADC card and provides a second loop for connecting up to a further 127 analogue sensors and other trigger devices.

An optional card, the expansion loop increases the total capacity of the panel to 254 analogue addressable devices.

DLD Dialer
The DLD is an optional card providing two digital outputs for direct line transmission to compatible digital alarm communicator receivers. The DLD supports 4/2 and Contact ID formats. The unit occupies one card space on the chassis rail.

ZR8 Relay card
Providing eight volt free relays, each of which can be independently configured as normally open or normally closed, the ZR8 occupies a single card space on the chassis rail. Contacts are rated at 1 amp at 30Vdc resistive.

NT-A Card and PORT232 Card
The NT-A, which includes the X485/RS-485 card and the PORT232/UART card, provides a single Class A serial remote repeater panel bus for connecting remote repeaters. Control panels require the X485 card and PORT 232 port, which also serves as a laptop or printer port.

The X485 occupies one card space on the chassis rail. The PORT 232 port plugs into the panel CPU.

LED/Switch cards ZD20-1, ZD20-2, ZD20-3, ZD20L and ZD12L4S

The ZD range of cards is used to provide the indication and controls on the front of Modula panel and repeater enclosures. Provision is made for up to two cards that can be used to signal and switch point or zone indication of alarm, disable, test, monitor and fault signals.

ZD20-1, ZD20-2, ZD20-3 feature twin LEDs per switch in 20 groups (zones), allowing complete control and indication of zonal information. The ZD20-1 has switches numbered 1 to 20, the ZD-2, 21 to 40 and the ZD-3, 41 to 60.

ZD20L displays 20 groups (zones) each by twin LEDs, with space for custom zone location text. No switches are provided.

ZD12L4S provides 12 groups (zones) of LEDs and 4 switch/LED groups, all capable of custom labeling. Each LED group has twin LEDs with labeling space. Each switch group has two LEDs and one switch with space for labeling.

All ZD cards feature a dual colour LED (red and yellow) and a single yellow LED per group (zone).