

# MALLOCH DIGITAL SERIES "150"

## High Security Alarms Linked with Access Control in One Package

The Series '150' now offers fully integrated high security alarm monitoring and access control. With the Malloch Digital Design Series '150' the barrier preventing security alarm panels and access control from mixing is eliminated. The Series "150" will always keep watch over the *whole* installation. Even when the panel is in access (disarmed), it will detect anyone tampering with the wiring between the panel and detectors and alert you to this.

- ☞ Up to 192 two-wire monitored alarm-input sectors (zones), with full Type 2 EOL modules for high-security protection.
- ☞ 1500 programmable six or four digit PIN codes.
- ☞ 30 programmable access levels that can define the groups of sectors, functions available and time zone for each user.
- ☞ Six programmable time zones and the battery-backed real time clock allow for time-orientated control functions and automated control, including automatic daylight saving time adjustment.
- ☞ Up to 16 remote keypads can be connected for control of the panel and to provide access control.
- ☞ The main panel is protected from attack by two tamper devices—door switch and vibration sensor.
- ☞ Panel alarms and status are available from the 8, 16, 24 or 32 relay output modules for connection to a dialler, or central monitoring station interface.
- ☞ Assignment of all 32 relays is fully programmable with up to 40 separate modes available, along with selectable masking. Relays can be set to be energised for the alarm or non-alarm mode.
- ☞ Full serial communication to a Securitel® interface unit can be incorporated with the panel.
- ☞ Automatic walk test function monitors detectors for correct operation during normal access times.
- ☞ A serial printer can be connected for recording event messages in plain text with time and date.
- ☞ Complies with the Electronic Security Equipment and Systems Working Committee Type 2 Security Alarm System, working note 2/85 specification and is endorsed by the Security Construction Working Committee as Type 2, complies with AS2201.

### FULLY PROGRAMMABLE

The Series '150' is fully programmable using a powerful microprocessor to control and monitor all functions. User codes can be added or deleted; sector configurations, time zones, access levels, relay outputs, detector testing, and door control can all be user programmed on-site. An alphanumeric display ensures trouble free system programming with interactive displays and prompts.

### INTELLIGENT PRINTER BUFFER

The printer buffer will store the last 6000 events to be printed out on the serial printer. All events are true time and date stamped and events can be recalled from the buffer to the printer from a specific date.

### END-OF-LINE MODULE (EOLM)

Malloch Digital's patented Type 2 active end-of-line module operates on two wires; this ensures instant detection of tampering with cabling between all monitored points. Substitution of end-of-line modules is prevented by the unique software and hardware interface, which ensures a stable alarm detection circuit; this eliminates false alarms from external interference such as lightning strikes.

### AUXILIARY INPUT MODULE (AIM)

The AIM is an optional module, which can be connected in parallel to an existing Type 2 EOLM. It allows an additional fully monitored detector to be added to existing alarm input. The AIM can be configured to suppress an EOLM alarm from a door contact where any access control system is used.

### AUTOMATIC WALK-TESTING

When the "150" is set to local (day) mode it will continue to monitor all the detectors to ensure that they have operated. This *automatic walk testing* minimises maintenance costs and alerts the user to faulty or non-operational detectors. A single push button scans all the sectors to indicate detectors currently in alarm and detectors that have operated during the day are also shown.

### TECHNICAL SPECIFICATIONS

Operating temperature:	-10 to +55°C
CPU Board:	Z80 microprocessor 32 Kbytes EPROM 10 Kbytes RAM 8 Kbytes EEROM
Dimensions:	6U: 550W x 310H x 220D mm 9U: 550W x 440H x 220D mm
Colour:	POWDERCOTE magnolia
Construction:	1.6mm zinc coated steel.

### POWER SUPPLY

Mains input:	240 volts ±10% 50-60 Hz
Secondary:	15 volts at 4 amps
Max system load:	12 volts at 600mA
Max external load:	12 volts at 600mA
Battery charger:	12 volts at 1.2 amps
Monitoring:	low battery = 10.5 volts loss of mains input

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