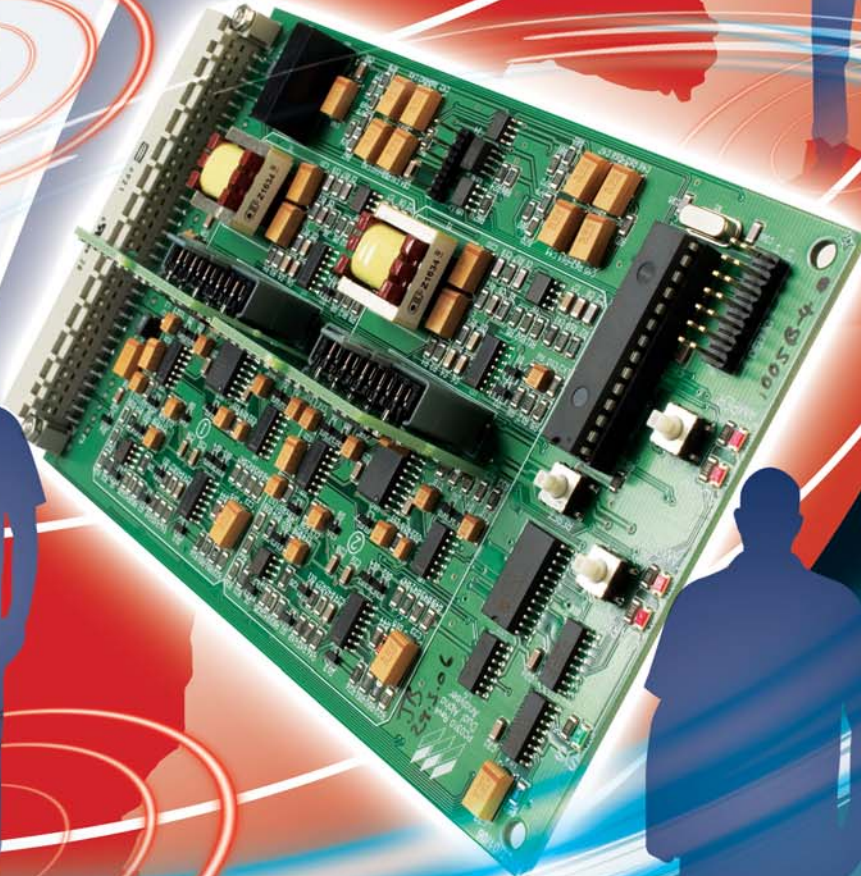


MicrAlert



- Perimeter Based Inputs and Outputs
- One to Four Zone Detection Options
- Network Integration for Large Perimeters
- Easy Upgrade Path to Geoquip Gthernet

The Multi Zone Fence Mounted Alarm Processor

GEOQUIP



WORLDWIDE
The Leader in Perimeter
Protection Solutions

The GCMMB MicrAlert system offers up to four independent zones of microphonic cable detection, each providing a widely configurable range of outputs for alarm / tamper / pre-alarm / fault conditions. It also provides four additional dry contact monitoring inputs allowing the connection of alternative detection systems that provide simple dry relay contacts. Also relay outputs can be used for general purpose switching, controlled by SMS.

Alarm verification is provided in the form of an audio output which is automatically selected when a sensor zone goes into alarm. Alternatively, the audio output from any of the sensor zones can be manually selected. Geoquip's world famous audio clarity is fully exploited by the MicrAlert analyser system.

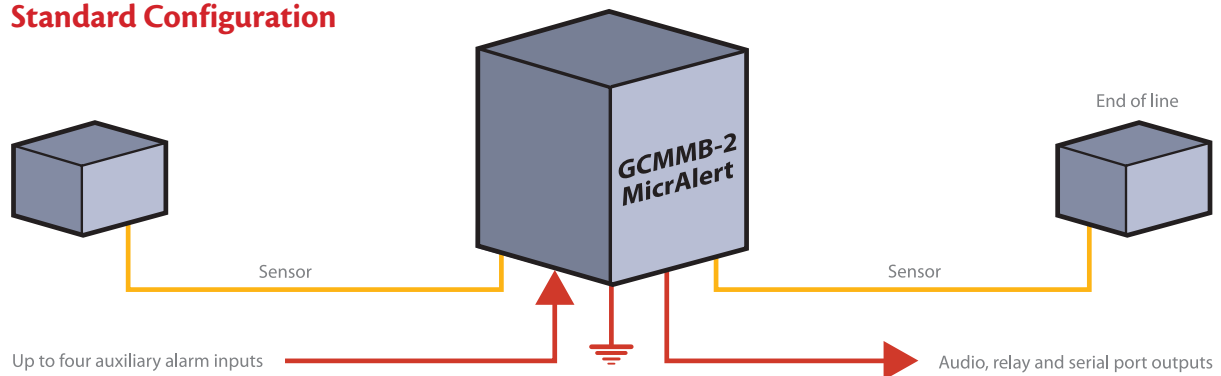
The MicrAlert analyser may be operated remotely using the on-board RS232 serial data link. System status can be monitored as well as adjustment of system parameters such as sensitivity, event counts, and time window. Alternatively, local control system status is signalled by dry relay contact outputs

with system adjustments being made using either the on board operator display and push button controls which are fitted as standard or by optional plug-in hand-held controller. Both the on board operator display and the handheld controller are password protected to prevent unauthorised changes to the system.

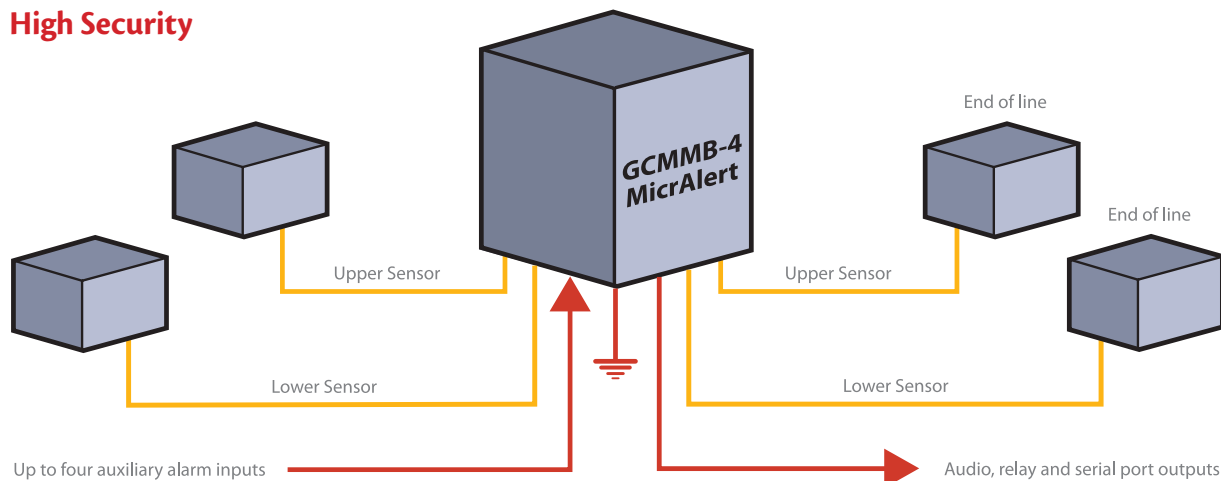


MicrAlert Configurations

Standard Configuration



High Security



Note: High security option for automatic sensitivity adjustment in case of sabotage on lower sensor

Fence Mounted Alarm Processor

Technical Information

Application

Provides analysis of up to four GDALPHA sensor zones with independent alarm, tamper and audio outputs. Four auxiliary contact inputs provided as standard.

Sales Part Number

- GCMMB-2: Two sensor zones version
- GCMMB-4: Four sensor zones version

Inputs

Four auxiliary alarm inputs – fully supervised by monitoring resistors.
Up to four GDALPHA sensor inputs.
Integral sensor tamper monitoring.

Outputs

- Audio Channel: 0dBm in 600 Ohms
- Relay Outputs: Voltage: 110V ac or 30V dc
Current: 0.3A ac or 1.0A dc
Power: 30VA or 20W
- RS232 Serial Port: 9600/19200 user selectable baud rate, no Parity, 1 start bit, 1 stop bit

Lightning Protection

By gas discharge tube and semiconductor surge suppressor. Transformer isolation provided on GDALPHA sensor inputs. Lightning protection components provided on plug-in card for easy replacement.

System Parameters

Audio output operation mode, relay operation mode, baudrate

Analyser Parameters for each zone

- Sensitivity: Four independent sensitivity controls, cut, climb, hacksaw and pre-alarm each with twenty settings
- Events: Selectable 1-9
- Timer: Selectable in 30 sec intervals
Range: 30-270 secs

Aux Contact Parameters

- Series / parallel resistance monitoring of NC or NO contacts
- Timer function

Internal Controls

- Six menu and parameter selection Buttons.
- System reset button.
- Optical enclosure tamper switch.

LED Status Indicators

- Sensor Cable Zones: 4 Alarm LEDs, 4 Tamper LEDs, 2 Analysis system OK LEDs
- Auxiliary Contact Zones: 4 Alarm LEDs, 4 Tamper LEDs
- Audio Monitoring Channel: 4 Active Channel LEDs
- Relay Outputs: 8 Status LEDs
- On Board Power: 2 Status LEDs
- Serial Data Link: 2 Status LEDs

Alarm storage

Offline alarm storage of 250 events

Dimensions

330mm x 220mm x 110mm

Weight

4kg

Power Requirements

6.5-24V dc at 400mA (fully populated board)

Housing Material

Die-cast aluminium finished with polyester powder paint to RAL7001 (Silver/Grey)

Environmental Rating

Sealed to IP65

Cable Entries

- 4 x PG9 cable glands
- 1 x PG11 cable gland
- 1 x M20 cable gland

Operating Temperature

-40°C to +80°C

Relative Humidity

Maximum 90% RH Non-Condensing

Warranty

12 months from date of invoice



Key Advantages of MicrAlert



- Provides signal analysis of GDALPHA sensor signals
- Applicable to all commonly encountered fence constructions
- Typical maximum zone length of up to 250 metres
- Plug-in filter modules allow optimum response for unusual fence constructions
- Three independent signal processing channels per zone (cut, climb, hacksaw)
- Remote adjustment via RS232 serial data channel
- Local adjustment via on-board display and controls or optional hand-held controller
- Dry contact relay outputs provide simple interfacing to control panels
- Full lightning protection of all sensor/contact input zones

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QA0413

Rev 0: 30.04.06

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