SENTINEL

Hands-Free Weather Resistant Telephone

GAI-TRONICS®

- **SMART Analogue as standard**
- **Stainless steel faceplate**
- **Full Dialler metal keypad**
- **2 x Remotely programmable (non-volatile) memory locations**
- **DTMF dialling**
- **Line powered down to 25mA**
- **Optional mains supply adapter**
- **Hands-free operation**
- **Weather resistant to IP65**
- **Audio-visual ring indication**
- **Flush or surface mount options available**
- **Volume adjust button VOL +/-**
- **CE compliant**

The NEW hands-free weather resistant Sentinel is flush or surface mounted and designed to be fixed to a vertical surface by vandal resistant tamperproof screws. The combined metal keypad and stainless steel faceplate provide protection from the harshest environments up to IP65.

The 16 button metal keypad consists of 0-9 digits, Vol +/-, MEM1, MEM2 and ON/OFF button. The unit is fully configured to work with most PABX's and PSTN networks.

Incoming calls are indicated by a flashing LED and audible warble tone. A volume control button is provided for noisy environments.

The keypad includes features to aid navigation for the visually impaired.
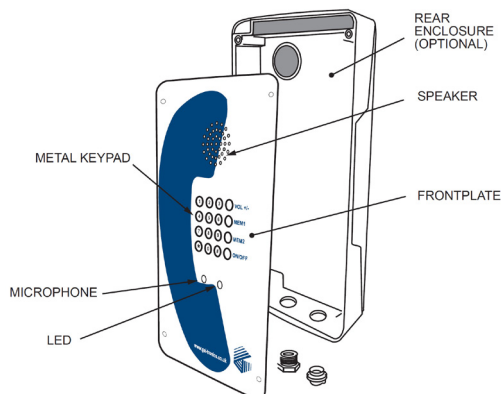
SMART Analogue as standard

Self **M**onitoring **A**nd **R**eporting **T**elephone(s) can be integrated with GAI-Tronics' TMA monitoring and maintenance software. SMART gives advanced features including remote programming, fault monitoring and call logging, all from a line-powered telephone capable of operating up to 7km from the exchange on a two-wire cable.

SMART features

This family of products has a wide range of intelligent features including:

- Monitoring of faults and health status
- Remote programming of auto-dial numbers and configuration parameters
- Alternate day / night autodial numbers
- Call logs for calls made to and from the telephones

These features are all available over standard, 2 wire telephone lines with no external power required at the phone.

To use these features, GAI-Tronics provide Telephone Management Application (TMA) software separately.

REAR ENCLOSURE (OPTIONAL)
SPEAKER
METAL KEYPAD
FRONTPLATE
MICROPHONE
LED

Casing Material: Faceplate material: Stainless steel, brushed finish. Rear enclosure: Aluminium, powder coated (sold seperately)

Keypad: Weather resistant / Vandal resistant

16 metal buttons on 4 x 4 matrix, comprising:

• 12 numeric keys (0-9, *, #)

• 2 memory dial buttons (MEM1 & MEM2)

• ON/OFF button

• Volume button (cycles the receive level between normal level, -6dB and +6dB)

Temperature: Operating: -20ºC to +60ºC

Storing: -40ºC to +70ºC

Weight: 1.5kg (without back box)

Weather Resistance: Up to IP65 dependant on installation. Please call for advise on application

Relative Humidity: Up to 95% (non-condensing)

Ringing Tone: 80dBA @ 1m

Hookswitch: Electronic with no external moving parts

Power Supply: Under normal circumstances, Sentinel will operate entirely from telephone line power and no additional power supply is required. A supplementary power supply (sold separately) is available, which can improve performance on lines where the loop current or ring voltage is low.

Dialling and recall: MF only. TBR only.

Monitored faults and sensors:

Brown out (line failure)

Stuck button

Call log full

4 auxilliary inputs (optional)

Parameters configurable with TMA:

Autodial numbers - including time-switched alternate numbers

Speech receive level

Rings before / after auto-answer

Time out (default 7 minutes)

Mute before dial

DTMF detection window

Monitoring method :

Remote polling (initiated by TMA)

Call-in (initiated by telephone at pre-set time)

Approvals

This mark indicates compliance with the:
Radio & Telecommunications Terminal Equipment Directive 1999/5/EC (R&TTE)
RoHS 2 Directive 2011/65/EC

ITU-T recommendation K.21 - Enhanced surge protection

For other approvals, please contact GAI-Tronics

Operational Requirements

Systems:

Analogue Public Switched Telephone Network (PSTN)

Private Automatic Branch Exchange (PABX)

Not suitable for connection to:

Payphone extensions

Public Emergency Telephone System (PETS)

Telephone line parameters (without supplementary power supply):

Ring Voltage: 40V to 100V rms, 20Hz - 50Hz

Line voltage 20 to 70 Vdc
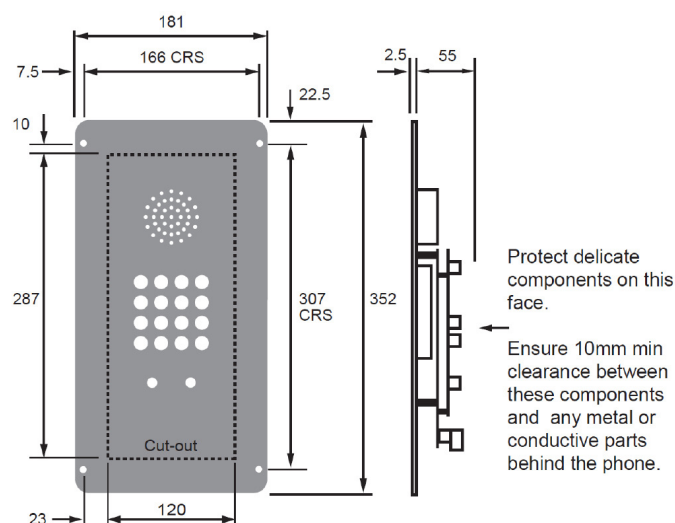
Loop current min 25mA

Max loop resistance 2800R

Line impedance 270R + 750R||150nF as defined in ETSI standard ES 203 021 (previously TBR21)

With supplementary power supply:

Ring Voltages down to 30V

Loop current down to 15mA

Dimensions

Order Information

Sentinel, 16 button, hands-free	**228-02-650G-009**
Stainless Steel Surface mount box	**100-02-1401-909**
TMA package (UK)	**100-02-0309-001**
TMA package (Europe)	**100-02-0309-002**

T: 01283 500500, F: 01283 500400, E: sales@gai-tronics.co.uk

Optional Accessories

Please ask for Brochure **B150** or visit www.gai-tronics.co.uk

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