

Intrinsically Safe Telephone

A103

 **GAI-TRONICS®**



Image for Illustration purposes only

The A103 is a push button telephone, purpose-designed for underground coal mining installation and use, providing automatic dialling via a surface interface into a standard PAX or PABX surface exchange. Its ruggedised, welded steel casing with stove-enamel coating is saline resistant. The telephone is made of glass filled polyester with polycarbonate curly cord handset which is impact resistant and sealed to IP55. Twin speakers give >90dBA SPL for ringing and when used as a loudspeaker unit under emergency conditions.

The all-electronic internal module is conformal coated for reliability. An easily accessible Ni-MH battery module in each telephone provides the internal audio amplifier's operating supply and is trickle charged from the telephone line.

- **ATEX Certified**
- **Full 15 button keypad, plus Emergency push button operation**
- **DTMF/LD dialling and recall options**
- **Intrinsically safe**
- **No moving parts**
- **Wall mounting, simple installation**
- **Rugged and weather resistant to IP55**
- **Robust handset- curly cord**
- **Large tactile buttons, easy to see and operate**

Connection is via a simple twisted-pair cable that can be contained within a multi-core cable if required. Up to three telephones can be connected for 'party-line' working from one line pair by a four-core link.

Operation is simple, with finger guide holes for ease of dialling, even when wearing thick gloves. An easily distinguishable button operates an emergency alert (to an Emergency desk, if fitted).

The telephone may be configured for either DTMF or LD dialling. When DTMF has been selected, the Star, Hash and Recall buttons enable access to all of the extended functions of the exchange.

Immediate re-dialling is achieved by use of the Recall button.

TECHNICAL SPECIFICATIONS

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Casing Material: Carbon loaded glass-filled polyester

Casing Surround: Sheet steel, stove enamelled

Handset Material: Polycarbonate

Keypad: Weather sealed tactile digital keypad

Degree of Protection: IP55

Weight: 9kg

Operating Temperatures: -20°C to +40°

Controls:

Press to Dial/Accept call

Keypad Dialling

Press to Recall

Press for Emergency

Press switch on handset (disables broadcast speech)

Operating Power: 8.4V dc from internal 600 mAh Ni-MH rechargeable battery module, charged from the line @ 24V dc at 10mA

Operating Current (from battery): 250mA nominal (loudspeaker ringing)

Loudspeakers: Two (Mylar). Facing each way along the mine shaft

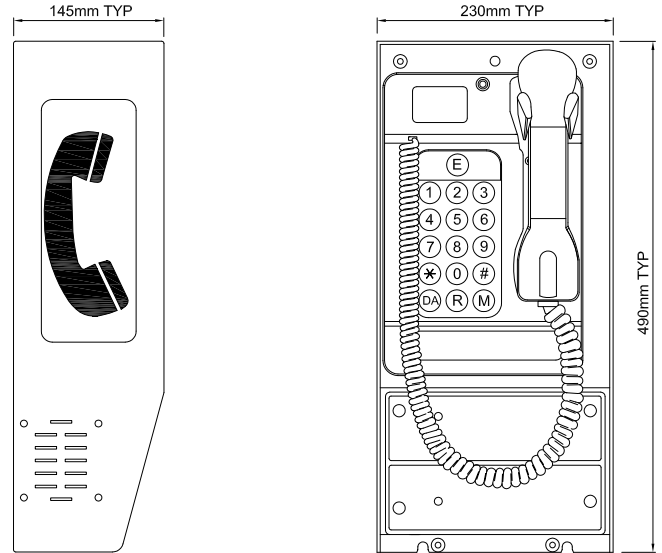
Audio Output: 2W peak into 16 Ohms

Acoustic Output: 95dBA @ 1m

System Supply: Via ST1 Interface, requires connection to a barrier

DIMENSIONS

W 230MM X H 490MM X D 145MM



APPROVALS

Ex ia I M1

Ex ia I Ma (Ta = -20°C Ta +40°)

ATEX - Baseefa12ATEX0197

UKEX - BAS21UKEX0301

ORDER INFORMATION

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