



GAI-TRONICS[®]
A Hubbell Company

DAC Telephony

Hygeia

Hands Free Sterile Area Telephone



- Full key pad
- Flat membrane fascia, resists contamination
- Hands free operation (VOX)
- DTMF/LD dialling
- Line powered down to 25mA
- Optional mains supply adapter
- Audio-visual ring indication
- REN 1
- CE / BABT Compliant
- Flush or surface mounting
- Volume adjust on installation and on front panel

The Hygeia is a fully electronic telephone that incorporates many features found on modern commercial telephones. It provides hands-free loudspeaking communication facilities, as intercoms PBX switching, or coupled direct to the UK telecom network.

Hygeia is a flush or surface mounted unit incorporating a perfectly flat membrane operating panel. When installed with suitable interface sealants, a very high IP water resistant rating can be achieved.

The operating membrane is an impermeable multilayer chemically inert polyester.

Incoming calls are indicated by a flashing LED beacon and audible warble tone. To aid intelligibility, a volume control button is provided for noisy environments.

Call termination can either be through button depression, automatic time out or remote command.

Ringer operation is selectable either at installation or as remote programming.

Hygeia can be configured to be fully compatible with most PABX's or PTT networks. Loop disconnect (LD) and tone dialling (DTMF) systems are internally selectable, as are a variety of recall systems, timed break recall (TBR) and earth loop recall (ELR).

Available as 18 button with 2 memory keys and volume (VOL) button.

TECHNICAL SPECIFICATION

Speech

Tested to the latest 95/031S NTR3 specification.
Voice-switched (VOX) semi-duplex operation.
Additional half-duplex mode controlled remotely (optional local push-to-talk button).
Send & Receive levels remote programmable (1dB step).
Receive volume control button(s) adjusts level by +/- 6dB.
Call timeout programmable from 1 to 42 minutes.
Remote switch-off capability.
Euro-wide network matching (factory set).

Dialling

LD impulse rate: 10 ips
Mark/space ratio: 2:1
MF dialling tones meet international standard requirements CCITT Q23
Initial dialling and recall modes: DTMF or LD, TBR or ELR, Mute-Before-Dial (remote programmable)
Other formats (factory set):
DTMF: 50ms or 100ms
LD: 66:33 / (60:40 option factory set)
500ms / 800ms idp
TBR: 100ms, 300ms or 600ms
Full keypad with 2 memories, Recall and Volume button

Safety

Tested to EN41003 and EN60950

Ringing and Remote Maintenance

Dual tone ringing through loudspeaker >75dB @ 1m REN 1
Auto-answer for remote programming: 0 to 15 rings
Speech disabled during remote programming; call cleared down in favour of user dialling

Power requirements

Line powered only operation down to 25mA.
Supplementary power 6 - 9Vdc 100mA, 12Vdc 250mA. Below 35mA line current supplementary power is recommended to achieve full volume

Temperatures:

Operating: -20°C to +55°C
Storage: -40°C to +70°C

Relative Humidity:

Up to 95% (non-condensing)

Ingress Protection:

Up to IP65 dependent on installation.
Please call for advice on application

Weight:

1.1 Kg

EMC TESTING

Radiated Emission

E-field (30MHz to 1GHz), TRG1068 (RE01), method used EN55022
H-field (100kHz to 30MHz), TRG1068 (RE02), method used VDE 0871

Conducted Emission

150kHz to 30MHz narrow head, TRG1068 (CE02), method used ENV55102-1(Class B)

Radiated Immunity

E-field, TRG1068, (RS01, RS02), 27 MHz to 1GHz @ 5V/m, 1m, method used ENV50140/IEC801-3:1984.
H-field, TRG1068 (RS03), 20Hz to 50kHz

Electrostatic Discharge

TRG1068 (RS04), method used IEC801-2: 1991, 4kV contact and 8kV air discharge

Conducted Immunity

TRG1068 (CS05), conducted RF, 86dBuA Bulk Current Injection (BCI), 10kHz to 100MHz

TRG1068 (CS03), fast transients, severity 2kV - IEC801-4: 1988

TRG1068 (CS02), induced susceptibility, 10A for 2s BS3G100

CCITT K.20, surges (lightning)
Severity level 4kV ETS300 386-1

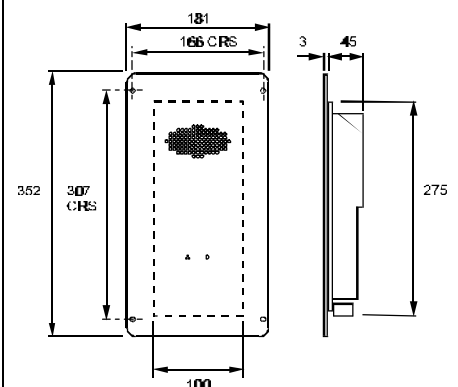
Compliance with above standards indicates compliance with EN50082-1 & EN50081-1

APPROVALS



GAI-Tronics has been assessed and approved by BAPT as a listed production facility for simple and feature telephones

DIMENSIONS



Overall: 352H X 181W X 48D mm

Fixing: 307H X 166W mm CRS

Cut out: 275H X 100W mm

ORDER CODE

Hygeia 028-02-1408-90A - with back box
028-02-1408-900 - no back box

Distributor:



GAI-Tronics Limited, UK - Tel: +44 (0)1283 500500 - Fax: +44 (0)1283 500400 - www.gai-tronics.co.uk

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Quality Management Systems Certified - ISO9001:2000

The policy of GAI-Tronics is one of continuous improvement, therefore the company reserves the right to change specifications without notice.

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