

Standard Speaker Phone/Ringdown Circuit Board



Advanced Speaker Phone/Ringdown Circuit Board

ENCLOSURES AND ACCESSORIES

Guardian Telecom enclosures and accessories were designed with the versatility to enhance our two major product lines Telephones & Page/Talk.

CIRCUIT BOARDS

Guardian Telecom Speaker Phone/Ringdown Circuit Boards support both keypad and auto dialer switches for reliable communication. Auxiliary Device Relays provide remote operation of external lighting, cameras, locks and other devices.

Speaker Phone / Ringdown Circuit Boards are used to upgrade Guardian Telecom telephones, as replacement parts for Guardian HDE Series Telephones and as communication parts by leading makers of Elevators, & and more.

CIRCUIT BOARDS Standard & Advanced Speaker Phone/Ringdown Circuit Boards

FEATURES and BENEFITS

STANDARD SPEAKER PHONE/ RINGDOWN CIR-CUIT BOARD

The Standard Speaker Phone /Ringdown series circuit board pack is telephone line powered for basic operation and does not require external power. This circuit board kit supports both keypad and up to three auto dialer switches. It also includes a single Auxiliary Device Relay to remotely control an external device (e.g.: security camera). The Auxiliary Device Relay is closed whenever the telephone is off-hook. Provision of a supplementary power supply will increase the speaker volume capability from 82 dB to 85 dB at 0.5 meter.

Accessories and Options

- · Microphone with connector
- Small 2" (51 mm) speaker with connector
- · Conformal coating

ADVANCED SPEAKER PHONE/ RINGDOWN CIR-CUIT BOARD

The Advanced Speaker Phone /Ringdown series circuit board pack is intended for use where a supplemental power supply is available. The advanced series product offers an integrated 5W audio amplifier providing superior audio quality over typical line powered devices. In addition, three Auxiliary Device Relays are available; one primary control and two supplemental controls. The primary control relay works independently. The two supplemental control relays are also independent but cannot be activated simultaneously. These relays are suitable for controlling cameras, external lighting, electronic door locks, etc.

Note: In the event of a supplemental power failure, the Advanced Speaker Phone / Ringdown device will continue to operate in a basic functional mode. The primary and supplemental relay controls will continue to function, audio will still function at a reduced level.

Accessories and Options

- · Microphone with connector
- Large 4" (102 mm) waterproof speaker with connector
- · Conformal coating

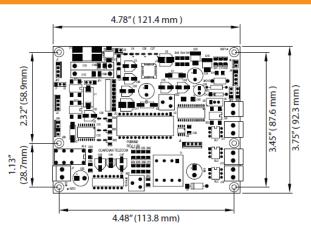






3.87" (98.3mm) (15.5mm) (15.5mm) (28.3mm) (28.3mm) (5.5mm) (5.5mm) (5.5mm) (5.5mm)

Standard Speaker Phone /Ringdown Circuit Board



Advanced Speaker Phone / Ringdown Circuit Board

Standard & Advanced Speaker Phone/Ringdown Circuit Boards



Standard Speaker Phone /Ringdown Circuit Board – P006010



Advanced Speaker Phone /Ringdown Circuit Board – *P006393*



Microphone with Connector – *P004593*



4" (102 mm) Waterproof Speaker with Connector – P006474



2" (51 mm) Speaker with Connector – P006473

ENGINEERING SPECIFICATIONS

AUDIO PERFORMANCE

Audio Range Frequency Response 300 - 3400 Hz
Dialing Method DTMF
Transmit Objective Loudness Rating (TOLR) Nominal -38 +/- 3 dB
Maximum Speaker Volume

Line Powered

Line Powered
- Standard 82 dB @ 0.5 meter
- Advanced 82 dB @ 0.5 meter
With External Power
- Standard 85 dB @ 0.5 meter

- Standard 85 dB @ 0.5 meter - Advanced 92 dB @ 0.5 meter

ELECTRICAL

Auto Answer Sensitivity
Line Voltage
24 - 56 VDC
Call Progress Tones
Dial Tone: 350 Hz & 440 Hz @ -16 dBm0
Busy Tone: 480 Hz & 620 Hz @ -24 dBm0
Duty Cycle 500mS On, 500 mS Off
Emergency Relay
130 mA @ 350 V

Auxiliary Device Relays (on Advanced version)

Environmental Temperature

 $\begin{array}{ll} \text{Temperature} & -40^\circ \ \text{to} \ +140^\circ \ \text{F} \ (-40^\circ \ \text{to} \ +60^\circ \ \text{C}) \\ \text{Humidity} & 0 \ -95\% \ \text{RH Non-Condensing} \end{array}$

ORDERING INFORMATION

Warranty: Five years parts and labor

Order No. Description

P006010 Standard Printed Circuit Board Assembly / Hands Free P006393 Advanced Printed Circuit Board Assembly / Hands Free

Options — Contact Guardian Sales For More Information

P004593 Microphone with Connector

P006426 4" (102 mm) Speaker – (HDE-10 uses Standard 2" Speaker)

P006473 2" (51 mm) Speaker with Connector

CC Conformal Coating

Distributed by:

Dual 2,500 mA @ 60V



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