



G U A R D I A N T E L E C O M

Product and Services Guide

Emergency/Help Point Analog Telephones & Correctional Analog Telephones

Meeting the critical demands of public safety and operational security, while delivering reliable communications in rugged conditions and high ambient noise areas lead Guardian Telecom to the development of two specialized lines of telephones:

7 Emergency/Help Point – HDE Series

8 Correctional – CIT & CIR Series

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CONNECTED. PROTECTED.

SECTIONS

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Visit industrial sites around the world and you can find telephones and communication systems designed, manufactured, distributed and commissioned by Guardian Telecom. From certified and ruggedized telephone and paging endpoints, to loudspeakers & ringers, cable, accessories, acoustic booths and much more. Our product line is extensive and our knowledge in-depth.

Guardian manufactures and assembles at our modern, ISO certified, CSA, UL and ATEX approved facility located east of the Canadian Rockies in Calgary, Alberta, Canada.

Working closely with our customers has always been a cornerstone in our work ethic. It keeps us up to date on their evolving needs and requirements as they operate in a demanding and uncompromising industrial world.

Guardian Telecom has completed its initial VoIP telephone product launch. As the IP world continues to evolve and grow, we will continue to invest both time and resources in design and testing to meet the stringent requirements that clients demand.

The in-house channel-partner sales and technical teams are here to work directly with you or through our network of distributors and representatives, locally, nationally and globally. Take advantage of their practical experience and product knowledge to make informed decisions based on your communication needs, environmental factors, regulatory requirements, budget considerations, growth and scheduling.

From individual telephone units to complete systems, our focus on customers' distinct needs is also addressed by customizing products whenever practical. From features to colors, finishes to labels, graphics, parts, enclosures and more.

Guardian can help guide you through the product selection process no matter how complex it is. We invite you to contact us to discuss your needs and see if our products & services will be the right fit.



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Guardian Telecom's Product and Services Guide Catalogue is a compilation of individual Category Sections. They include an in-depth selection of Product Data Sheets from our extensive product lines including Analog and VoIP Telephones, Page/Talk, Cable, Talk/Back, PA/GA equipment, Acoustic Booths, Loudspeakers & Ringers and Accessories at the date of publication.

Based on a policy of continuous improvement, Guardian is constantly evaluating and redesigning existing models, adding new features and introducing new products to the benefit of our customers. Additional information can be found on our website at www.guardiantelecom.com.

Emergency/Help Point Analog Telephones — HDE Series



In response to requests from our customer base to develop a unit that would work in harsh conditions including extremely cold weather, rain and noisy environments, Guardian expanded our HDE (Heavy Duty Emergency) line. Clients needed highly reliable units for locations requiring telephones that are critical to public safety, including transit facilities, College and University campuses.



One of the critical factors we had to deal with was high ambient noise areas. Our design team developed an advanced circuit board that will effectively allow reliable 2 way voice communication in noisy areas up to 92 decibels when used with an external power source. Our "A" series units have this feature.



In order to combat moisture and dust from entering the enclosure, speaker and microphone areas, all of our HDE units have louvers which are very effective against rain, sleet, snow and dust. The louvers also help to prevent damage caused by vandalism to the speaker and microphone areas from sharp items such as an ice pick.

- HDE-10 Wall mount, Single Emergency Call Button, 0.25 Watt Audio Power Amplifier, Line Powered Maximum Speaker Volume 82dB @ 0.5 meters, with External Power 85 dB
- HDE-11 Recessed, Single Emergency Call Button, 0.25 Watt Audio Power Amplifier, Line Powered Maximum Speaker Volume 82dB @ 0.5 meters, with External Power 85 dB
- HDE-11A Recessed, Single Emergency Call Button, Two Auxiliary Relays, 5.0 Watt Audio Power Amplifier, Line Powered Maximum Speaker Volume 82dB @ 0.5 meters, with External Power 92 dB
- HDE-1100 Recessed, Single Emergency Call Button & 12 Digit Teleseal Keypad, 0.25 Watt Audio Power Amplifier, Line Powered Maximum Speaker Volume 82dB @ 0.5 meters, with External Power 85 dB
- HDE-1100A Recessed, Single Emergency Call Button & 12 Digit Teleseal Keypad, Two Auxiliary Relays, 5.0 Watt Audio Power Amplifier, Line Powered Maximum Speaker Volume 82dB @ 0.5 meters, with External Power 92 dB
- HDE-12 Wall Mount, Single Emergency Call Button, 0.25 Watt Audio Power Amplifier, Line Powered Maximum Speaker Volume 82dB @ 0.5 meters, with External Power 85 dB
- HDE-12A Wall Mount, Single Emergency Call Button, Two Auxiliary Relays, 5.0 Watt Audio Power Amplifier, Line Powered Maximum Speaker Volume 82dB @ 0.5 meters, with External Power 92 dB
- HDE-1200 Wall Mount, Single Emergency Plus Call Button & Teleseal 12 Digit Keypad, 0.25 Watt Audio Power Amplifier, Line Powered Maximum Speaker Volume 82dB @ 0.5 meters, with External Power 85 dB
- HDE-1200A Wall Mount, Single Emergency Plus Call Button & Teleseal 12 Digit Keypad, Two Auxiliary Relays, 5.0 Watt Audio Power Amplifier, Line Powered Maximum Speaker Volume 82dB @ 0.5 meters, with External Power 92 dB

Correctional Telephones ...



Correctional Analog Telephones — CIT & CIR Series

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Our Correctional Telephones were designed in conjunction with a major North American Justice System to provide reliable and cost effective communications for persons either charged or serving time. Guardian's vandal resistant equipment is designed to endure public abuse and tampering as well as low or high temperatures, dust, water and corrosion.

The rugged nature of these units reduces overall costs to the Correctional Facilities as they are not constantly repairing or replacing these telephones in hostile environments. Safety was a main factor in the design of these units as the standard handset cord length was reduced to 16" to lessen the chance of the handset being used as a club or choking device.

- CIT-40 Metal Keypad and Armored Handset Cord
- CIR-41 Ringdown Telephone, PBX programming routes the call

HDE Series Heavy Duty Emergency Telephones

FEATURES and BENEFITS

- HDE models with an emergency Push Button feature – depress once automatically rings designated number(s) to summon help
- HDE 1100 & 1200 series have a keypad to allow the user to manually dial numbers
- Durable enclosure with powder coated finish is rust resistant
- Remote programming – allows you to manage your emergency network from a central location
- LED – provides visual confirmation of call connection
- ADA (American Disability Act) compliant label (HELP) – standard on HDE 11 & 12 and 1200. Optional on HDE 10 & 1100
- Speaker – hands free operation
- Control Relays – primary relay standard on all models, 2 additional auxiliary relays on advanced models

APPLICATIONS

These telephones are designed to provide reliable communications in environments subject to vandalism, moisture, dust and corrosive chemicals such as:

- Universities
- Elevators
- Parking Facilities
- ATMs
- Transit Authorities
- Medical Centers
- Industrial Parks
- Public Access Areas
- Building Entrances
- Plant Entry Gates
- Sporting Facilities
- Amusement Parks
- Senior Citizen Housing
- and more ...

INSTALLATION and CONNECTABILITY

To provide flexibility and potential for growth, Guardian telephones are easily and economically connected to any telephone network by standard wiring and components. Voice quality is unaffected when phones are connected within 15,000 feet (~4,600 meters) of a main telephone switch accepting single line telephones.

ACCESSORIES and OPTIONS

- ALD – Automatic Line Disconnect
- Conformal coated circuitry – protects components from humidity damage
- 12V-24V AC or DC supplemental external power supply
- MS – HDE-11 / HDE-12 with mushroom switch
- BS – Blue Switch for HDE



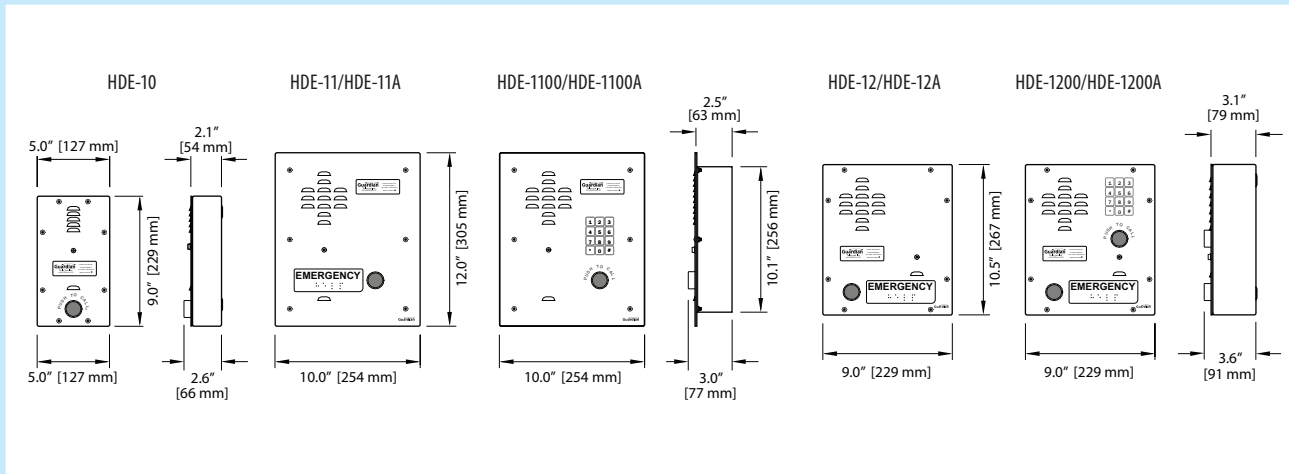
Guardian's HDE Series telephones are intended for use in public areas where direct assistance or hands-free communication is required. They provide a two-way link to assistance through analog, half-duplex telephone transmission. A call may be initiated from the telephone or from the monitoring station. The telephone may be programmed to autodial two numbers or to ring down through a PABX. HDE Series telephones also provide the capability of monitoring the status of each unit from a remote location, informing personnel of a malfunction.

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OVERALL DIMENSIONS



HDE Series Heavy Duty Emergency Telephones

ENGINEERING SPECIFICATIONS

ELECTRICAL PERFORMANCE

Audio Range Frequency Response	300 - 3400 Hz
Dialing Method	DTMF
Transmit Objective Loudness Rating (TOLR)	-36 dB @ 0.5 m
Maximum Speaker Volume	
Without External Power Supply	All Models 82 dB @ 0.5 m
With External Power Supply	HDE10/11/1100/12/1200 85 dB @ 0.5 m
	HDE11A/1100A/12A/1200A 92 dB @ 0.5 m
Set Impedance	600 Ohms Nominal
Maximum Loop	15Kft (~4,600m) of 22 AWG Wire

ELECTRICAL REQUIREMENTS

Auto Answer Sensitivity	40 -100 V, 16 - 25 Hz
Line Voltage	24 - 56 VDC
Loop Current	20 - 120 mA
Connection Method	Surge Arrestor
Call Progress Tones	Dial tone: 350 Hz & 440 Hz @ -16 dBMO
	Busy tone: 480 Hz & 620 Hz @ -24 dBMO
	Duty Cycle 500mS On, 500 mS Off
External Power Supply (optional)	12V - 24V, 0.25 A
Auxiliary Relay Contacts	Primary Relay 0.12A @ 250VAC
	Supplementary Relays 1 & 2 2.0A @ 60VDC

ENVIRONMENTAL

Temperature	-40° to +140°F (-40° to +60°C)
Humidity	0 - 95% RH Non-Condensing

MECHANICAL SPECIFICATIONS

Body Construction	16 Ga Mild Steel
Finish	Zinc Dichromate Plated & Powder Coated
Net Weight	HDE-10 3.5 lbs (1.6 kg)
	HDE-11/11A 6.4 lbs (2.9 kg)
	HDE-1100/1100A 6.8 lbs (3.1 kg)
	HDE-12/12A 7.0 lbs (3.2 kg)
	HDE-1200/1200A 7.2 lbs (3.3 kg)
Shipping Weight	HDE-10 5.0 lbs (2.3 kg)
	HDE-11/11A, HDE-1100/1100A, HDE-12/12A, HDE-1200/1200A 10.0 lbs (4.6 kg)
Shipping Dimensions (L x W x D)	HDE-10 15.0" x 5.0" x 11.5" (381 x 127 x 293 mm)
	HDE-11/11A, HDE-1100/1100A, HDE-12/12A, HDE-1200/1200A 16.0" x 10.5" x 9.5" (407 x 267 x 242 mm)
Mounting	Vertical Wall or Recessed
Wiring Access	HDE-11/HDE-11A & HDE-1100/HDE-1100A - Two 7/8" Holes For Owner Supplied Fittings
	HDE-12/HDE-12A & HDE-1200/HDE-1200A - One 7/8" Hole For Owner Supplied Fittings
Hardware Material	Stainless Steel
COMPLIANCE	
Industry Canada	1012A-601B

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Model	Installation	Call Button Configuration	Two Auxiliary Relays	Audio Power Amplifier	Maximum Speaker Volume @ 0.5 Meters	
						Line Powered	With External Power
P6974	HDE-10	Wall Mount	Single Push-to-Call Button		0.25 Watt	82 dB	85 dB
P6977	HDE-11	Recessed	Single Emergency		0.25 Watt	82 dB	85 dB
P6984	HDE-11A	Recessed	Single Emergency	Yes	5.0 Watt	82 dB	92 dB
P6983	HDE-1100	Recessed	Single Call Button & 12 Digit Keypad		0.25 Watt	82 dB	85 dB
P6985	HDE-1100A	Recessed	Single Call Button & 12 Digit Keypad	Yes	5.0 Watt	82 dB	92 dB
P6979	HDE-12	Wall Mount	Single Emergency		0.25 Watt	82 dB	85 dB
P6986	HDE-12A	Wall Mount	Single Emergency	Yes	5.0 Watt	82 dB	92 dB
P6987	HDE-1200	Wall Mount	Single Emergency Plus Call Button & 12 Digit Keypad		0.25 Watt	82 dB	85 dB
P6988	HDE-1200A	Wall Mount	Single Emergency Plus Call Button & 12 Digit Keypad	Yes	5.0 Watt	82 dB	92 dB

Options

P8100	ALD Automatic Line Disconnect
CC	Conformal Coat Circuit Board
MS	HDE-11 / HDE-12 with mushroom switch
BS	Blue Switch for HDE
	12V-24V AC or DC supplemental external power supply

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The CIT-40 & CIR-41 Ringdown are rugged telephones designed to provide safe, reliable communication in locations prone to abuse and vandalism.

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CIT-40 Correctional Institute Telephone

CIR-41 Correctional Institute Ringdown Telephone

FEATURES and BENEFITS

- 16 AWG steel, zinc dichromate plated and powder coated
- Faceplate secured with vandal resistant screws
- Vandal resistant metal keypad, standard 3 x 4 matrix
- High impact ABS handset with lock on caps
- Surge arrestor and fuse prevents damage to the electronic circuits in the event of a high voltage spike on the telephone line
- Noise reducing microphone aids in clarity of transmission in noisy areas
- Factory set to tone (DTMF) dialing
- Pulse dialing can be ordered or configured in the field
- Armored handset cord withstands vandalism and severe use
- Hearing-aid compatible with inductively coupled hearing-aid devices
- Reduced handset cord length
- Lift the CIR-41 handset and PBX programming or an optional Auto Dialer routes the call to its assigned location

APPLICATIONS

These telephones are designed for use in locations that are prone to physical abuse and vandalism such as:

- Correctional Facilities
 - Secured Areas Within Institutions
 - Airport Security Areas
 - Security/Information Areas
 - Transit Fare Kiosks
 - Secure Reception Areas
- and more . . .

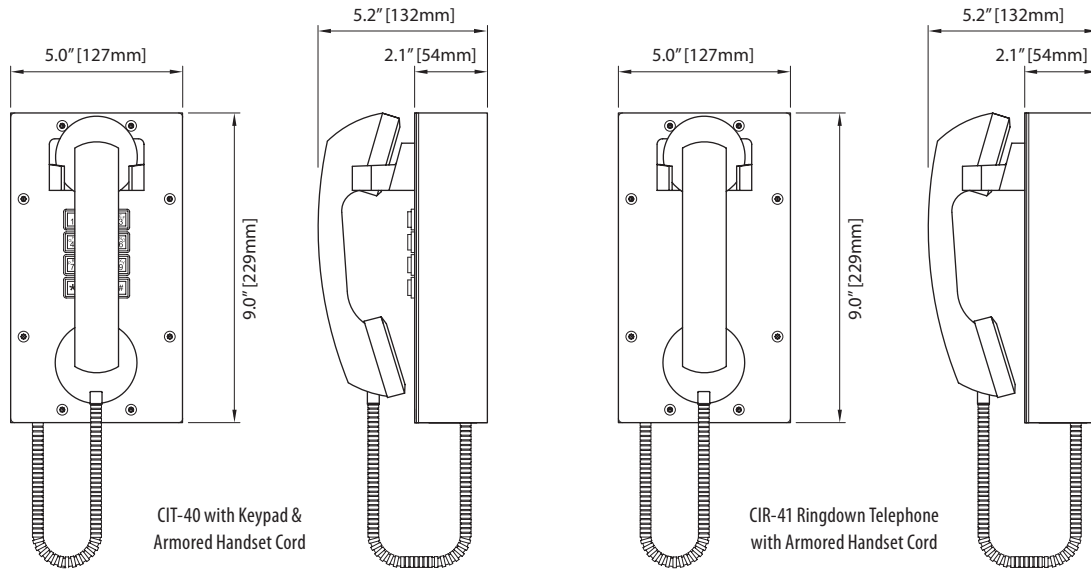
INSTALLATION and CONNECTABILITY

To provide flexibility and the potential for growth, Guardian's CIT-40 & CIR-41 telephones can be easily and economically connected to any telephone network through standard wiring and parts. Voice quality is unaffected when phones are connected within 15,000 feet (~ 4,600 meters) of a main telephone switch supporting single line telephones. Guardian telephones are tone/pulse switchable. Initial settings are to tone prior to delivery (unless requested otherwise). In-service switching may require technical assistance.

Options

- NC – Noise cancelling dynamic microphone
- AD – Auto Dialer
- FB – Ringer for CIT-40

OVERALL DIMENSIONS



CIT-40 Correctional Institute Telephone • CIR-41 Correctional Institute Ringdown Telephone

ENGINEERING SPECIFICATIONS

ELECTRICAL PERFORMANCE

Audio Range Frequency Response
 Dialing Method – CIT-40
 Connection Method – CIR-41
 Transmit Objective Loudness Rating (TOLR)
 Receiver Objective Loudness Rating (ROLR)
 Side Tone Objective Loudness Rating (SOLR)
 Ringer Output (CIR-41 only)
 FCC Ringer Equivalence
 Set Impedance
 Maximum Loop

300 - 3400 Hz
 DTMF or 40/60 Pulse @10 PPS
 Hotline Operation
 -40 +/- 3 dB
 Typical 50 +/- 3 dB
 Typical 11 +/- 4 dB
 >85 dB
 0.8 B
 600 Ohms Nominal
 15Kft (~4,600m) of 22 AWG Wire

ELECTRICAL REQUIREMENTS

Ringer Sensitivity
 Line Voltage
 Loop Current
 Connection Method

40 -100 V, 16 - 25 Hz
 24 - 56 VDC
 20 - 120 mA
 Terminal Strip or RJ Connectors

ENVIRONMENTAL

Waterproof Enclosure
 Temperature
 Humidity
 Dust & Corrosion Resistant

CSA Type 3R
 -76° to +176°F (-60° to +80°C)
 0 - 100% RH
 Full Gasket Faceplate

MECHANICAL SPECIFICATIONS

Hook Switch (Cradle Switch) Life
 Construction
 Finish
 Net Weight
 Shipping Weight
 Shipping Dimensions (L x W x D)
 Hand Set Construction
 Mounting
 Microphone
 Microphone (Optional)
 Receiver
 Hardware Material
 Wiring Access

>1 000 000 Operations
 16 Ga Steel
 Zinc Dichromate Plated & Powder Coated
 4 lbs (1.8 kg)
 5.5 lbs (2.5 kg)
 15.0" x 5.0" x 11.5" (381 x 127 x 293 mm)
 High Impact ABS
 Vertical Wall
 Noise Reducing Electret
 Noise Cancelling Dynamic
 Hearing Aid Compatible
 Stainless Steel
 Rear Opening 1.5" x 1.5" (38 x 38 mm)

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Description
P6969	CIT-40 Correctional Institute Telephone/Armored Handset Cord
P6978	CIR-41 Correctional Institute Ringdown Telephone/Armored Handset Cord
Options	
NC	Noise Cancelling Dynamic Microphone
AD	Auto Dialer
FB	Ringer for CIT-40

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About Guardian Telecom

- Building on a Legacy of Design and Service
- Communications: Easy, Reliable and Safe
- More Choices, Selections and Services
- Standard Features
- Options & Accessories
- Product and Project Consultation
- Commissioning Services
- Sound Studies
- Training
- Maintenance, Cleaning, Trouble Shooting & Refurbishment
- Custom Design
- Page/Talk, Telephone, PA/GA and Talk/Back Systems
- Standards and Classifications

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Guardian represents DNH, E2S, Federal Signal, MEDC and TOA, and has access to an extensive range of other world class leading manufacturers. Visit www.guardiantelecom.com for additional information on Explosion Proof, Hazardous Area, ATEX-IEC and General Area Loudspeakers & Ringers.

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