

SCT-H Series Hazardous Area Steel Compact Telephones



SCT-10-H

SCT-30-H

SCT-20-H

SCT-40-H

Volume
Control Handset
on SCT-10-H,
SCT-30-H & SCT-40-H

Guardian's SCT-H Series Hazardous Area Steel Compact Telephones are engineered to deliver reliable, high quality communications in moderately harsh environments; where standard telephones are not suitable. Designed for use in industrial applications and ideal for noisy areas.

FEATURES and BENEFITS

- Encapsulated circuit boards impervious to water condensation and dust
- 16 gauge, corrosion protected, steel enclosure with powder coat finish
- Heavy duty industrial volume control handset on models SCT-10-H, SCT-30-H & SCT-40-H
- Rust and corrosion resistant stainless steel hardware
- Electret noise reducing microphone
- Magnetic reed hook-switch reduces moving parts subject to wear
- Service temperature range -40° to +140°F (-40° to +60°C)
- Surge arrester to prevent voltage spike damage
- Hearing aid compatible
- Electronic ringer for reliability
- Modular parts for easy service
- 1/2" NPT Conduit hub
- SCT-10-H – Waterproof Teleseal Keypad and Curly Cord
- SCT-20-H – Waterproof Membrane Keypad and Curly Cord
- SCT-30-H – Weather and Dust Proof Metal Keypad and Curly Cord
- SCT-40-H – Weather and Dust Proof Metal Keypad and Armored Cord

APPLICATIONS

- Refineries
- Power Generation Facilities
- Pulp and Paper Mills
- Food Processing Plants
- Chemical Plants
- Construction Sites
- Cement Plants
- Sewage Plants
- Drilling Rigs
- Hydroelectric Facilities
- Warehouses
- Mines
- Greenhouses and more . . .

INSTALLATION and CONNECTABILITY

To provide flexibility and the potential for growth, Guardian's SCT-H 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 ft. (~ 4,600 meters) of a main telephone switch supporting single line telephones. Maintaining safety standards may require special wiring conduits or other considerations. Telephones are preset for tone operation, but are tone/pulse switchable. In-service switching may require technical assistance. Order the SCT-H separately or as part of an integrated system.

ACCESSORIES and OPTIONS

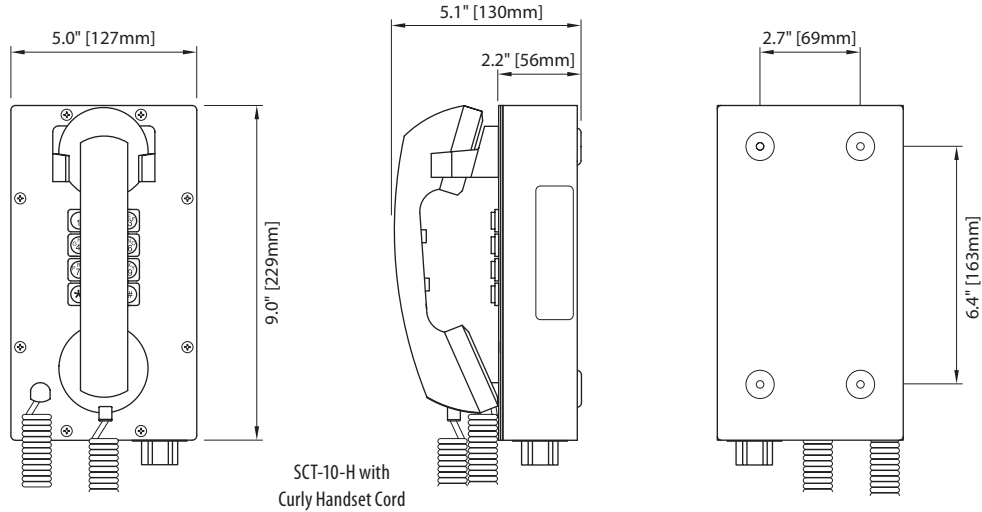
- 20C – 20' (6m) Curly cord for SCT-20-H
- 20VC – 20' (6m) Curly cord, volume control handset for SCT-10-H & 30
- 36AVC & 72AVC – 36" (.9m) & 72" (1.8m) Armored handset cords for SCT-40-H
- NC – Noise canceling microphone
- RC-SCT – Retainer clips – must be ordered with phone (standard on SCT-40-H, not available on SCT-20-H)
- BP-SCT/SCR – Stainless steel back / Mounting plate
- Ring detect relay
- Off-hook detect relay

**Guardian
Telecom**



ISO-9001:2008 Certification
Today's Quality Creates Our Future

OVERALL DIMENSIONS



SCT-H Series Hazardous Area Steel Compact Telephones

ENGINEERING SPECIFICATIONS

ELECTRICAL PERFORMANCE

Audio Range Frequency Response	300 - 3400 Hz
Dialing Method	DTMF or 40/60 Pulse @10 PPS
Transmit Objective Loudness Rating (TOLR)	Nominal -38 +/- 3 dB
Receiver Volume Adjustment	3 Steps Up / 2 Steps Down 8.1dB / 5.1 dB
Receiver Objective Loudness Rating (ROLR)	Nominal 50 +/- 3 dB
- receiver volume at maximum	41.9 +/- 3 dB
- receiver volume at minimum	55.4 +/- 3 dB
Side Tone Objective Loudness Rating (SOLR)	Nominal 11 +/- 4 dB
- receiver volume at maximum	7 +/- 4 dB
- receiver volume at minimum	14 +/- 4 dB
Memory Dial	} SCT-20-H Only
Flash	
Mute	
Ringer Output	10 Quick Dial Numbers 20 Digits Each
FCC Ringer Equivalence	600 mSec Timed Disconnect
Set Impedance	Press Key to Mute Transmitter
Maximum Loop	>85 dB
	0.8 B
	600 Ohms Nominal
	15Kft (~4,600m) of 22 AWG Wire

ELECTRICAL REQUIREMENTS

Ringer Sensitivity	40 -100 V, 16 - 25 Hz
Line Voltage	24 - 56 VDC
Loop Current	20 - 120 mA
Connection Method	Terminal Block

MECHANICAL SPECIFICATIONS

Hook Switch (Cradle Switch) Life	>1 000 000 Operations
Body Construction	16 Ga CRS Steel
Finish	Corrosion Protected & Powder Coated
Net Weight	4.0 lbs (1.81 kg)
Shipping Weight	6.0 lbs (2.72 kg)
Shipping Dimensions (H x W x D)	15.0" x 5.0" x 11.5" (381 x 127 x 293 mm)
Hand Set Construction	High Impact ABS
Mounting	Vertical Wall
Microphone	Noise Reducing Electret
Receiver	Hearing Aid Compatible
Hardware Material	Stainless Steel
Wiring Access	1/2" NPT Conduit Hub

ENVIRONMENTAL

Temperature	-40° to +140°F (-40° to +60°C)
Humidity	0 - 95% RH Non-Condensing
Corrosion Resistant	Full Gasket Faceplate

COMPLIANCE

CSA ("C" and "US")	CSA 158194
Industry Canada/Doc FCC	Class I, Div. 2, Groups A, B, C and D
	1012-6721A
	HQHCAN-22517-TE-E

ORDERING INFORMATION

Warranty: One year parts and labor

Order No.	Description
P6959	SCT-10-H Teleseal Keypad/Curly Cord/Volume Control Handset
P6273	SCT-20-H Membrane Keypad/Curly Cord/Volume Control on Keypad
P6964	SCT-30-H Metal Keypad/Curly Cord/Volume Control Handset
P6965	SCT-40-H Metal Keypad/Armored Cord/Volume Control Handset
Options	
20C	20' (6.1m) Curly Cord for SCT-20-H
20VC	20' (6.1m) Curly Cord, Volume Control Handset for SCT-10-H & SCT-30-H
36AVC	36" (.9m) Armored Handset Cord
72AVC	72" (1.8m) Armored Handset Cord
NC	Dynamic Noise Canceling Microphone
RC-SCT	Retainer clips – must be ordered with phone (standard on SCT-40-H, not available on SCT-20-H)
BP-SCT/SCR	Stainless Steel Back / Mounting Plate

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