

# SCT Series

## Steel Compact Telephones

### 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, SCT-30, SCT-40
- Rust and corrosion resistant stainless steel hardware
- Electret noise reducing microphone
- Magnetic reed hook-switch reduces moving parts subject to wear
- Service temperature range:
  - SCT-10, SCT-30, SCT-40 -76° to +176°F (-60° to +80°C)
  - SCT-20 -40° to +140°F (-40° to +60°C)
- Surge arrestor to prevent voltage spike damage
- Hearing aid compatible
- Electronic ringer for reliability
- Modular parts for easy service
- SCT-10: Waterproof Telesal Keypad and Curly Cord
- SCT-20: Waterproof Membrane Keypad and Curly Cord
- SCT-30: Weather and Dust Proof Metal Keypad and Curly Cord
- SCT-40: 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 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. Meeting 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 separately or as part of an integrated system.

### ACCESSORIES and OPTIONS

- 20C - 20' Curly cord for SCT-20
- 20VC - 20' Curly cord, volume control handset for SCT-10 & 30
- NC - Noise canceling microphone
- RC - Retainer clips
- CH - Conduit hub
- Ring detect relay
- Off hook detect relay



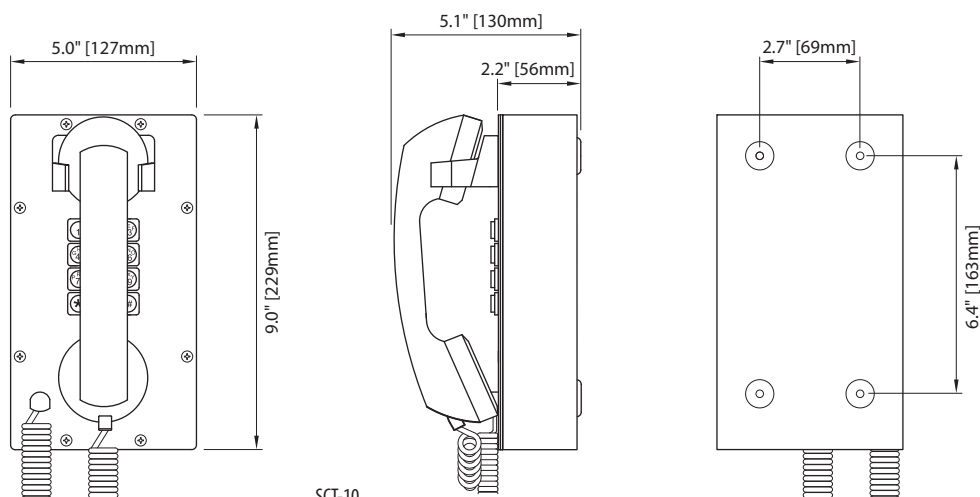
Guardian's SCT-10/20/30/40 Steel Compact Telephones are engineered to deliver reliable, high quality communications in moderately harsh environments, where standard telephones are not suitable. Designed for use in industrial applications and ideal for noisy areas.

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## OVERALL DIMENSIONS



SCT-10

## SCT Series 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 Only
Flash	
Mute	
Ringer Output	>85 dB
FCC Ringer Equivalence	0.8 B
Set Impedance	600 Ohms Nominal
Maximum Loop	15Kft (~4,600m) of 22 AWG Wire
	10 Quick Dial Numbers 20 Digits Each
	600 msec Timed Disconnect
	Press Key to Mute Transmitter

### ELECTRICAL REQUIREMENTS

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

### MECHANICAL SPECIFICATIONS

Hook Switch (Cradle Switch) Life	>1 000 000 Operations
Body Construction	16 Ga Mild Steel
Finish	Corrosion Protected & Powder Coated
Net Weight	4 lbs (1.8 kg)
Shipping Weight	6 lbs (2.7 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

### ENVIRONMENTAL

Temperature	SCT-10, SCT-30, SCT-40 -76° to +176°F (-60° to +80°C)
	SCT-20 -40° to +140°F (-40° to +60°C)
Humidity	0 - 95% RH Non-Condensing
Corrosion Resistant	Full Gasket Faceplate

### COMPLIANCE

Industry Canada/Doc	1012-6721A
FCC	HQHCAN-22517-TE-E

### ORDERING INFORMATION

Warranty: One year parts and labor

Order Number	Description
P6960	SCT-10 Teleseal Keypad/Curly Cord/Volume Control Handset
P6270	SCT-20 Membrane Keypad/Curly Cord/Volume Control on Keypad
P6268	SCT-30 Metal Keypad/Curly Cord/Volume Control Handset
P6972	SCT-40 Metal Keypad/Armored Cord/Volume Control Handset

Options	Description
20C	20' (6.1m) Curly Cord for SCT-20
20VC	20' (6.1m) Curly Cord, Volume Control Handset for SCT-10 & SCT-30
36AVC	36" (.9m) Armored Handset Cord
72AVC	72" (1.8m) Armored Handset Cord
NC	Noise Canceling Microphone
CH	Conduit Hub
RC	Retainer Clips

Accessories	Description
P7225	Weatherproof Ring Detect Delay
P7232	Weatherproof Off Hook Detect Relay

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Guardian pursues a policy of continuous improvement, therefore specifications are subject to change without notice.

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