

# WRT Series Weather Resistant Telephones

## FEATURES and BENEFITS

- Magnetic reed hook switch to reduce parts subject to wear
- Encapsulated circuitry impervious to water condensation and dust
- Hinge turns on nylon bushings to avoid jamming caused by salt or corrosion
- Spring-loaded door for automatic closure
- Surge arrestor to prevent voltage spike damage
- Heavy duty industrial handset
- Volume control to ensure communication in noisy environments
- Electret noise reducing microphone for clear communication
- Temperature range:
  - WRT-10, WRT-20, WRT-40 -76° to +176°F (-60° to +80°C)
  - WRT-30 -40° to +140°F (-40° to +60°C)
- Water proof connections & stainless steel fittings for longer life
- Compact durable enclosure, mounting plate on WRT-40 only
- Modular parts for easy service
- Hearing aid compatible
- Electronic ringer for reliability
- Sun yellow enclosure for high visibility. Optional Grey enclosure
- Weather, dust & corrosion resistant
- Tone or pulse dialing for universal configuration
- Easily connected to any single line analog CO or PABX telephone line
- Steel powder coated faceplate to eliminate corrosion
- Front access plate for ease of hook-up

## APPLICATIONS

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

- |                       |                              |                |
|-----------------------|------------------------------|----------------|
| • Transit Authorities | • Swimming Pools             | • Ships        |
| • Amusement Parks     | • Parking Garages            | • Mines        |
| • Cement Plants       | • Plant Entry Gates          | • Airports     |
| • Universities        | • Pulp & Paper Mills         | • Docksides    |
| • Sewage Plants       | • Construction Sites         | • Warehouses   |
| • Greenhouses         | • Food Processing Facilities | • and more ... |

## INSTALLATION and CONNECTABILITY

To provide flexibility and potential for growth, 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 metres) of a main telephone switch accepting single line telephones. Meeting safety standards may require use of special wiring conduits or other considerations.

WRT-10



WRT-20



WRT-30

Volume  
Control  
Handset



WRT-40



Guardian's WRT-10/20/30/40 telephones are weather resistant and deliver reliable communications under adverse conditions. Specially designed to provide reliable service in outdoor environments, the WRT-10/20/30/40 telephones resist moisture, dust and corrosive chemicals.

**Guardian**  
Telecom Inc.

ISO 9001 Today's Quality Creates Our Future

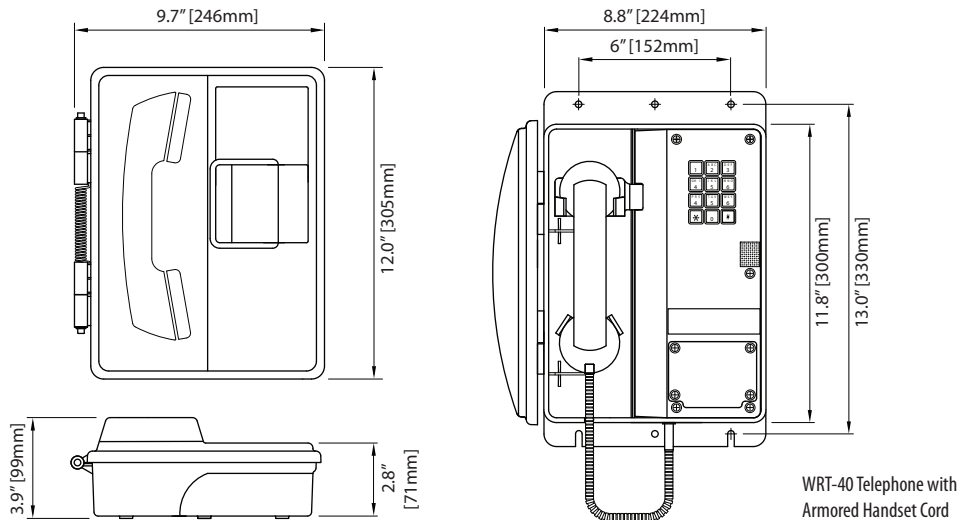


Faceplate finish not as shown.  
WRT series finish is Sahara Metallic.

Sold by:



## OVERALL DIMENSIONS



## WRT-Series Weather Resistant 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	} WRT-20 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	Between 75 and 80 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	Surge Arrestor

### MECHANICAL SPECIFICATIONS

Hook Switch ( Cradle Switch ) Life	> 1 000 000 Operations
Body Construction	GE Valox 357® Engineering Polymer
Faceplate	Corrosion Protected & Powder Coated
Net Weight (including mounting plate)	7.0 lbs ( 3.2 kg )
Shipping Weight (including mounting plate)	8.0 lbs ( 3.7 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

### ENVIRONMENTAL

Weather Proof Enclosure	Type 3R
Temperature	WRT-10, WRT-30, WRT-40 -76° to +176°F ( -60° to +80°C )
	WRT- 20 -40° to +140°F ( -40° to +60°C )
Humidity	0 - 95% RH Non-Condensing
Corrosion Resistant	Full Gasket Faceplate

### COMPLIANCE

Environmental Survivability	MIL-STD810E
Industry Canada	1012-6721A
FCC	HQHCAN-22517-TE-E

### ORDERING INFORMATION

Warranty: One year parts and labor

Order Number	Description
P6072	WRT-10 Teleseal Keypad, Volume Control Handset
P6073	WRT-20 Membrane Keypad, Volume Control on Keypad
P6074	WRT-30 Metal Keypad, Volume Control Handset
P6075	WRT-40 Metal Keypad, Volume Control Handset, Armored Cord, Mounting Plate

#### Options

MP	Mounting Plate (Included with WRT-40)
20C	20' (6.1m) Curly Cord for WRT-20
20VC	20' (6.1m) Curly Cord for WRT-10/30
36AVC	36" (.9m) Armored Handset Cord for WRT-40
72AVC	72" (1.8m) Armored Handset Cord for WRT-40
CH	Conduit Hub
NC	Noise Canceling Microphone
GR	Grey Enclosure
RC	Handset Retainer Clips

Distributed by:



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

**Guardian**  
Telecom Inc.

ISO 9001 Today's Quality Creates Our Future

7552 - 10th Street N.E., Calgary, Alberta, Canada T2E 8W1  
 Telephone: 403 258-3100 Facsimile: 403 253-4967  
 1-800-363-8010 (North America)  
[info@guardiantele.com](mailto:info@guardiantele.com)  
[www.guardiantele.com](http://www.guardiantele.com)