



Standard Handset on all WRT-HD



WRT-20-HD and WRT-20-H



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



WRT-40-H

# WRT-H/WRT-HD SERIES Hazardous Area Telephones

## WRT SERIES OUTDOOR/INDOOR INDUSTRIAL ANALOG HAZARDOUS TELEPHONES

- WRT-10-H/HD Telesal Keypad/Volume Control Handset/Heavy Duty Coil Cord
- WRT-20-H/HD Membrane Keypad/Volume Control Handset/Armored Cord
- WRT-30-H Metal Keypad/Volume Control Handset/Heavy Duty Coil Cord
- WRT-40-H Metal Keypad/Volume Control Handset/Armored Cord/Mounting Plate

## FEATURES and BENEFITS

- Magnetic reed hook switch to reduce parts subject to wear
- Encapsulated circuitry impervious to water and particles
- Nylon hinge to prevent 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 (not available on WRT-10-HD model)
- Electret noise reducing microphone for clear communication
- Service temperature range from -40° to +140°F (-40° to +60°C)
- Waterproof connections & stainless steel fittings for longer life
- Compact durable enclosure with mounting plate for easy mounting
- Modular parts for easy service
- Hearing aid compatible
- Electronic ringer for reliability (HD models have a bell)
- Yellow enclosure for high visibility. Optional grey enclosure and other custom color options available
- Weather, dust & corrosion resistant
- Tone or pulse dialing for universal configuration
- Easily connected to any single line analog CO or PABX telephone line
- Powder coated, corrosion protected steel faceplate
- Front access plate for ease of hook-up

## APPLICATIONS

These telephones are designed for use in locations where the atmosphere may be hazardous due to the presence of gases, dust, or fibers such as:

- |                               |                             |
|-------------------------------|-----------------------------|
| Oil Refineries                | Drilling Rigs               |
| Ammonia & Fertilizer Plants   | Mines                       |
| Paint & Varnish Manufacturing | Bulk Loading Stations       |
| Chemical Plants               | Grain Processing Facilities |
| Sewage Treatment Plants       | Food Processing Facilities  |
| Pulp & Paper Mills            | and more . . .              |

## WR RANGE OF TELEPHONES

Guardian's WR RANGE Weather Resistant Industrial Telephone Series are designed for rough-service areas, special communication needs, that insure high quality communications under extreme working conditions.

## WRT-H/HD SERIES OF TELEPHONES

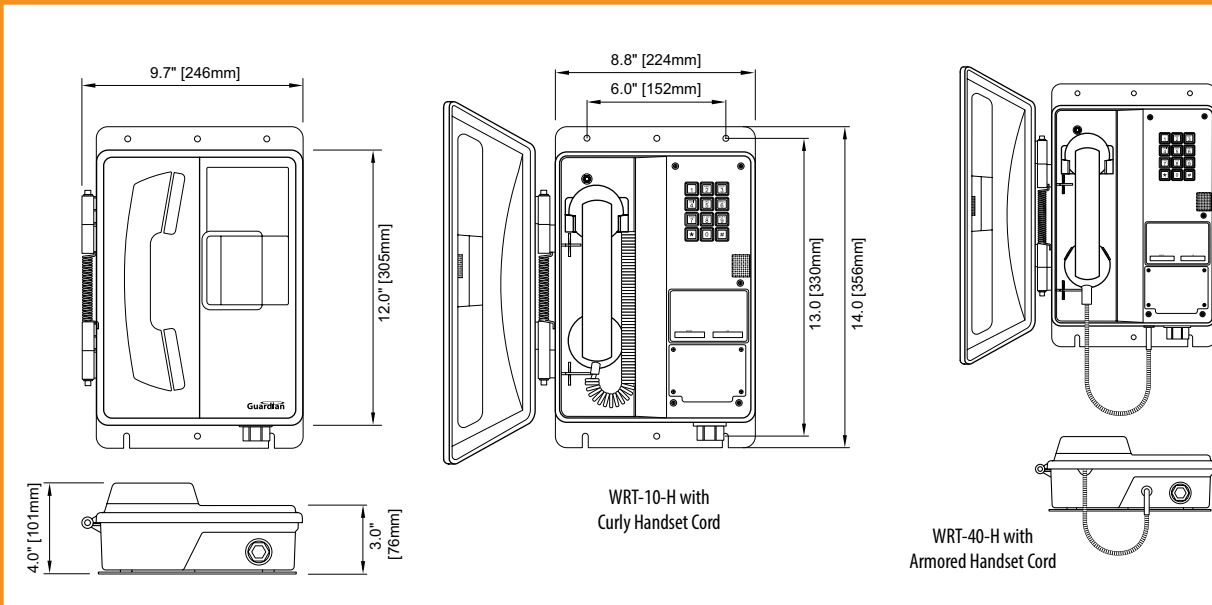
Guardian's WRT-H/WRT-HD SERIES Weather Resistant Industrial Telephone Series provide reliable service in outdoor environments. WRT-H models are designed for use in Class I, Division 2 hazardous areas where the atmosphere may be hazardous due to the presence of gases, dust, or fibers. WRT-HD are designed for use in Class I, Division 2 and Class II Division 1 & 2 hazardous areas where the atmosphere may be hazardous due to the presence of gases or dust.



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## OVERALL DIMENSIONS



WRT-H/WRT-HD SERIES Hazardous Area 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
*Applies to volume control handset only. – NOTE: WRT-20-H & WRT-20-HD use the non-volume control handset. Volume is controlled via the keypad.	
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-H/HD Models 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
	WRT-H Models 0.8 B / WRT-HD Models 0.8 A
	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 Arrester

### MECHANICAL SPECIFICATIONS

Hook Switch ( Cradle Switch ) Life	>1 000 000 Operations
Body Construction	GE Valox 357 Engineering Polymer
Net Weight	7.0 lbs ( 3.2 kg )
Shipping Weight	8.0 lbs ( 3.7 kg )
Shipping Dimensions ( L x W x D )	15.0" x 5.0" x 11.5" ( 381 x 1127 x 293 mm )
Hand Set Construction	High Impact Polycarbonate
Mounting	Vertical wall
Microphone	Noise Reducing Electret
Receiver	Hearing Aid Compatible
Hardware Material	Stainless Steel
Wiring Access	1/2" NPT Conduit Hub

### ENVIRONMENTAL

Weather Proof Enclosure	Type 3R
Temperature	-40° to +140° F ( -40° to +60° C )
Humidity	0 - 95% RH Non-Condensing
Dust & Corrosion Resistant	Full Gasket Faceplate

### COMPLIANCE

CSA ("C" and "US")	CSA 158194
WRT-10-HD, WRT-20-HD	Class I, Div. 2, Groups A, B, C and D; Class II, Div. I and 2, Groups E, F and G
WRT-10-H, WRT-20-H, WRT-30-H, WRT-40-H	Class I, Div. 2, Groups A, B, C and D
Industry Canada	1012-6721A
FCC	HQHCAN-22517-TE-E
– WRT-10-HD does not meet IC & FCC requirements for Volume Control	

### ORDERING INFORMATION

Warranty: Five years parts and labor

Order No.	Description
P6672	WRT-10-H Telesal Keypad/Curly Cord, Volume Control Handset
P6673	WRT-20-H Membrane Keypad/Curly Cord, Volume Control on keypad
P6675	WRT-30-H Metal Keypad/Curly Cord, Volume Control Handset
P6674	WRT-40-H Metal Keypad/Armored Cord, Volume Control Handset
P6676	WRT-10-HD Telesal Keypad/Curly Cord
P6677	WRT-20-HD Membrane Keypad/Curly Cord
<b>Options</b>	
20C	20' (6.1m) Curly Cord for WRT-20-H
20VC	20' (6.1m) Curly Cord for WRT-30-H
20CP	20' (6.1m) Curly Cord Handset for WRT-10/20-HD
36AVC	36' (.9m) Armored Handset Cord for WRT-40-H
72AVC	72" (1.8m) Armored Handset Cord for WRT-40-H
NC	Noise Canceling Microphone
GRV	Grey Enclosure
RED	Red Enclosure
RC-WRT/WRR	Retainer Clips – must be ordered with phone (standard on WRT-40-H)

Distributed by:



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