

WRT-H/-HD Series Hazardous Area Telephones



Heavy Duty
Handset on
all WRT-HD



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



WRT-H for Class I, Division 2 and WRT-HD for Class I, Division 2 and Class II Division 1 & 2 hazardous areas. Renowned for safety and durability, from the phone's electronics to their sturdy engineered polymer enclosure. All WRT-H and WRT-HD telephones are built for demanding applications where reliability is essential.

Guardian
Telecom Inc.

ISO 9001 Today's Quality Creates Our Future

Sold by:

TWAcomm.com
http://www.TWAcomm.com
Toll Free: (877) 389-0000

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
- Temperature ranges:
 - WRT-10-H/-HD, -30-HD, -40-H -76° to +176°F (-60° to +80°C)
 - WRT-20-H/-HD -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)
- 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
- 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
- Ammonia & Fertilizer Plants
- Paint & Varnish Manufacturing
- Chemical Plants
- Sewage Treatment Plants
- Pulp & Paper Mills
- Drilling Rigs
- Mines
- Bulk Loading Stations
- Grain Processing Facilities
- Food Processing Facilities
- and more . . .

INSTALLATION and CONNECTABILITY

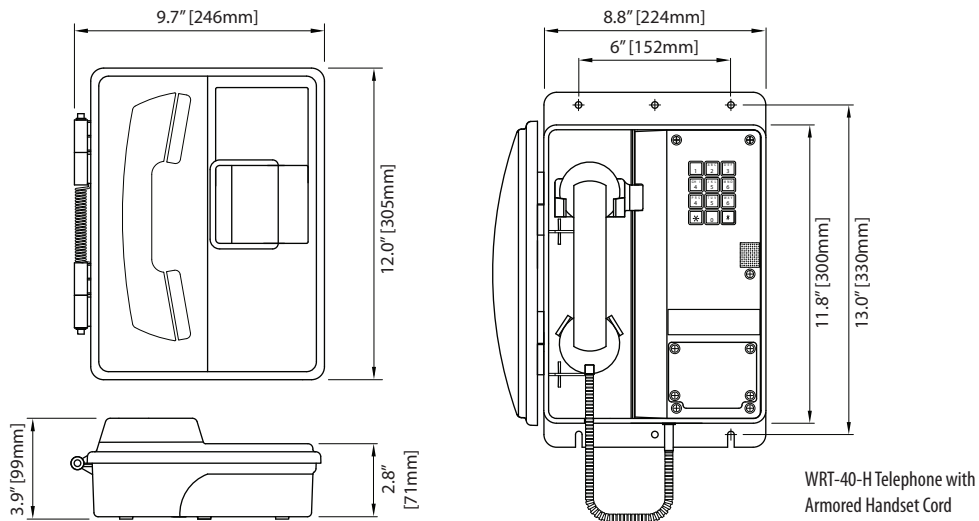
To provide flexibility and potential for growth, telephones are easily and economically connected to any telephone network by standard wiring and parts. Voice quality is unaffected when phones are connected within 15,000 feet (~4,600 meters) of a main telephone switch accepting single line telephones. Meeting safety standards may require use of special wiring conduits or other considerations. Telephones are tone/pulse switchable. Initial settings are to tone prior to delivery (unless requested otherwise). In-service switching may require technical assistance.



Faceplate finish not as shown.

WRT-H series finish is Sahara Metallic.

OVERALL DIMENSIONS



WRT-H/-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-20-H/-HD 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 Arrestor

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 ABS
Mounting	Vertical wall
Microphone	Noise Reducing Electret
Receiver	Hearing Aid Compatible
Hardware Material	Stainless Steel
Wiring Access	1/2" NPT Conduit Hub

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

ENVIRONMENTAL

Weather Proof Enclosure	Type 3R
Temperature	WRT- 10-H, WRT-30-H, WRT-40-H -76° to +176°F (-60° to +80°C) WRT- 20-H -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. 1 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
Environmental Survivability	MIL-STD810E
Industry Canada	1012-6721A
FCC	HQHCAN-22517-TE-E
- WRT-10-HD does not meet IC & FCC requirements for Volume Control	

ORDERING INFORMATION

Warranty: One year parts and labor

Order Number	Description
P6672	WRT-10-H Teleseal 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 Teleseal Keypad/Curly Cord
P6677	WRT-20-HD Membrane Keypad/Curly Cord
Options	
20VCP	20' (6.1m) Curly Cord for WRT-10-H
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
GR	Grey Enclosure
RC	Retainer Clips

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