



WTT-40-H

WTR-41-H

Guardian's WTT-40-H Hazardous Area Telephone and the WTT-41-H Hazardous Area Ringdown Telephone have been designed to provide dependable service in hazardous areas. In addition to being certified for use in Class 1, Division II applications, they have a 4X rating which makes them ideal for use in offshore or corrosive atmospheres.

Both models are housed in rugged polymer enclosures and come with a spring loaded locking door and armored hand set cord.

Guardian
Telecom Inc.

ISO 9001 Today's Quality Creates Our Future

WTT-40-H Hazardous Area Telephone

WTR-41-H Hazardous Area Ringdown Telephone

FEATURES and BENEFITS

- CSA Type 4X waterproof polymer enclosure
- Encapsulated circuitry impervious to water and particles
- Waterproof connections & stainless steel fittings for longer life
- Corrosion protected and powder coated steel faceplate
- The WTT-40-H model features a metal keypad for extended life
- Magnetic reed hook switch to reduce parts subject to wear
- Surge arrestor to prevent voltage spike damage
- Vandal resistant armored handset cord with lanyard
- Heavy duty G Type industrial handset
- Electret noise reducing microphone for clear communication
- Temperature range -76° to +176°F (-60° to +80°C)
- Modular parts for easy service
- Mounting plate for easy installation
- Hearing aid compatible & receiver volume adjustment
- Electronic ringer for reliability
- Tone or pulse dialing for universal configuration
- Easily connects to any telephone network for acceptance on any single line analog CO or PBX telephone line
- Handset retainers to maintain on-hook status
- Tamper proof faceplate screws
- Spring loaded locking door

APPLICATIONS

- Refineries
- Drilling Rigs
- Chemical Plants
- Marine Installations
- Offshore Platforms
- Aerospace Sites
- Bulk Fuel Loading Facilities
- Desert & Arctic Conditions
- 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 (~4,600m 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 setting is to tone prior to delivery (unless requested otherwise). In-service switching may require technical assistance.

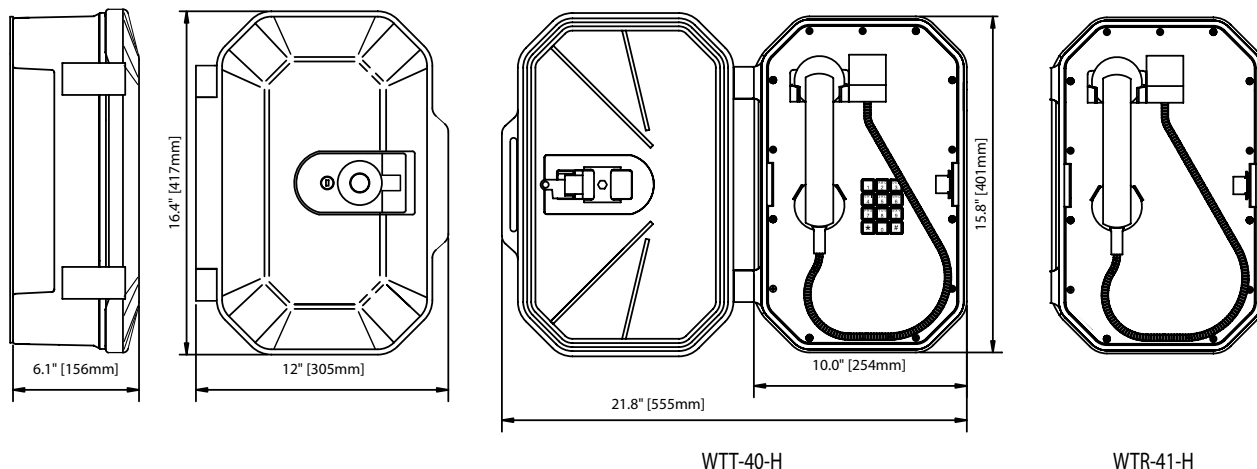
ACCESSORIES and OPTIONS

- Auto dialer on the WTR-41-H
- Choice of enclosure colors (minimum quantity required)



Stainless steel faceplate finish as shown is optional.
WTT-40-H & WTR-41-H finish is Sahara Metallic.

OVERALL DIMENSIONS



WTT-40-H Hazardous Area Telephone • WTR-41-H Hazardous Area Ringdown Telephone

ENGINEERING SPECIFICATIONS

ELECTRICAL PERFORMANCE

Audio Range Frequency Response	300 - 3400 Hz
Dialing Method (WTT-40-H)	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
Ringer Output	>65 dB
FCC Ringer Equivalence	0.9 B
Set Impedance	600 Ohms Nominal
Maximum Loop	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 / Surge Arrestor

MECHANICAL SPECIFICATIONS

Hook Switch (Cradle Switch) Life	>1 000 000 Operations
Body Construction	Polyurethane 70 Durometer
Body Dimensions (H x W x D)	16.4" x 12" x 6.1" (417 x 305 x 155 mm)
Net Weight	16 lbs (7.26 kg)
Hand Set Construction	High Impact ABS
Mounting	Vertical wall
Microphone	Noise Reducing Electret
Receiver	Hearing Aid Compatible
Hardware Material	Stainless Steel
Connection Fittings	1/2" NPT Conduit Entry

ENVIRONMENTAL

Waterproof Enclosure	CSA Type 4X
Temperature	-76° to +176°F (-60° to +80°C)
Humidity	0 - 95% RH Non-Condensing
Dust & Corrosion Resistant	Fully Gasketed Enclosure

COMPLIANCE

CSA	Class I, Div. 2, Groups A, B, C and D; Class I, Zone 2, Group IIC, T5
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ORDERING INFORMATION

Warranty: One year parts and labor

Order Number	Description
P5710	WTT-40-H Watertight Telephone/Metal Keypad/Armored Handset Cord
P5711	WTR-41-H Watertight Ringdown Telephone/Armored Handset Cord

Options

NC	Noise Canceling Microphone
AD	Autodialer (WTR-41 only)
Choice of enclosure colors (minimum quantity required) – consult with sales agent	

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

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