

DTT-20-H

Hazardous Area Industrial Desktop Telephone



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Telephone

Guardian Telecom's DTT-20-H Hazardous Area Industrial Desktop Telephone meets requirements for use in Class I, Division 2 areas. The DTT-20-H is non-incendive, rugged and dust & corrosion resistant.

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FEATURES and BENEFITS

- One piece, water resistant membrane keypad
- Heavy duty handset and cord
- Magnetic reed hook switch with no moving parts for extended life
- Encapsulated circuit boards are impervious to water, tropical humidity and mine condensation
- Kydex 100® plastic faceplate is 94V-0 fire retarding, durable, impact resistant and easy to clean
- Rotating the base allows the telephone to be wall mounted
- Electret noise reducing microphone
- Volume adjustment and muting
- Ten-number memory, redial and recall

APPLICATIONS

This telephone is designed for use in locations where the humidity level is high or the atmosphere may be hazardous due to gases or vapours:

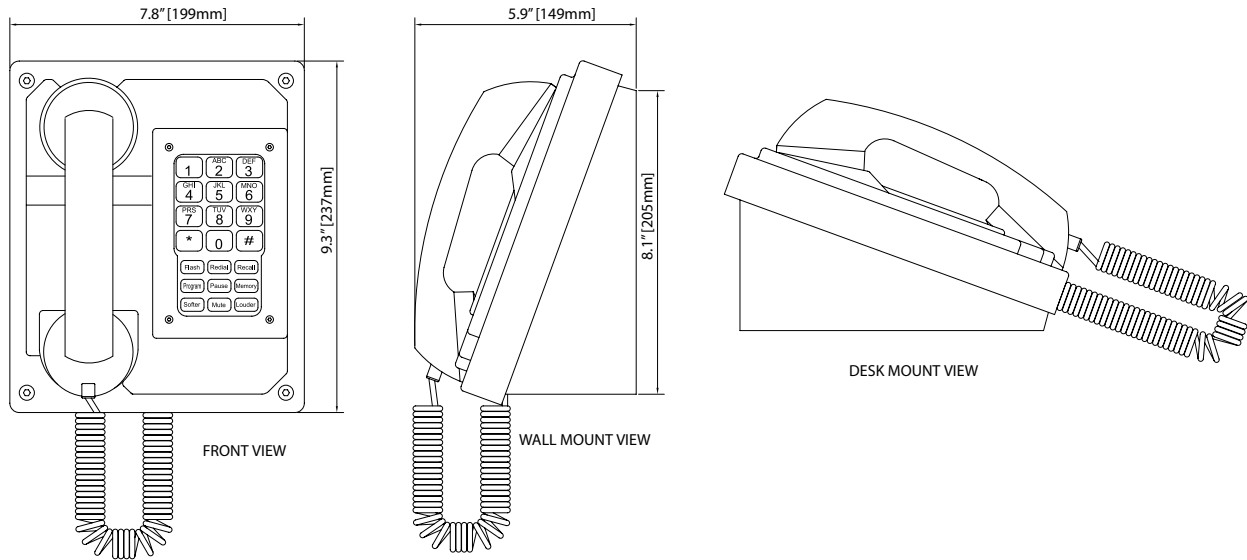
- Processing Plants
- Refineries
- Pulp & Paper Mills
- Chemical Plants
- Marine Drilling Rigs
- Mine Offices
- Bulk Loading Stations
- and more ...

INSTALLATION and CONNECTABILITY

To provide flexibility and the potential for system growth, Guardian's DTT-20-H Hazardous Area Industrial Desk Telephone can be easily and economically connected to any telephone network through standard wiring and components. Voice quality is unaffected when phones are connected within ~ 4,600 meters (15,000 ft.) of a main telephone switch which accepts single line telephones.

Meeting safety standards may require special wiring conduits or other considerations. Telephones are tone/pulse switchable (the switch is inside telephone). Unless requested otherwise, the initial settings are set to tone prior to delivery. In-service switching may require technical assistance.

OVERALL DIMENSIONS



DTT-20-H Hazardous Area Industrial Desk Telephone

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 -41 +/- 3 dB
Receiver Volume Adjustment	3 Steps Up / 2 Steps Down 13.5 dB / 2.7 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	10 Quick Dial Numbers 20 Digits Each
Flash	600 msec Timed Disconnect
Mute	Press Key to Mute Transmitter
Redial	31 Digits Maximum
Ringer Output	>80 dB
FCC Ringer Equivalence	0.9 A
Set Impedance	600 Ohms Nominal
Maximum Loop	4,600m (15Kft) 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	8' (2.4 m) Cable to Surge Arrestor in Telephone

MECHANICAL SPECIFICATIONS

Hook Switch (Cradle Switch) Life	>1 000 000 Operations
Body Construction	16 Ga Steel
Finish	Corrosion Protected & Powder Coated
Body Dimensions (H x W x D)	9.3" x 7.8" x 5.9" (237 x 199 x 149mm)
Net Weight	5.5 lbs (2.5 kg)
Faceplate Construction	Kydex 100®
Hand Set Construction	High impact ABS
Optional Mounting	Vertical Wall
Microphone	Noise Reducing Electret
Receiver	Hearing Aid Compatible
Hardware Material	Stainless Steel

ENVIRONMENTAL

Temperature	-40° to +60°C (-40° to +140°F)
Humidity	0 - 95% RH Non-Condensing

COMPLIANCE

Hazardous Area Approval	Class I, Div. 2, Groups A, B, C and D Class I, Zone 2, Group IIC, T5
CSA	LR158194
Industry Canada / DOC	1012-6721A
FCC	HQHCAN - 22517 - TE - E
Environmental Survivability	MIL-STD-810E

ORDERING INFORMATION

Warranty: One year parts and labor

Order Number	Description
P6570	DTT-20-H Hazardous Area Industrial Desktop Telephone

Options	
NC	Noise Canceling Microphone

Distributed by:

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

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