DTT-V-Z DTR-V-Z SERIES
Industrial Desk / Wall VoIP Telephones, IECEx - Zone 1

DTT-60-V-Z with armored cord configured for desktop

DTT SERIES has optional push to talk PTT handset

DTR-51-V-Z configured for wall mount

DTR-V-Z / DTT-V-Z SERIES INDUSTRIAL VoIP HAZARDOUS TELEPHONES

- DTT-50-V-Z - Silicone Keypad/Handset/Heavy duty Curly Cord
- DTT-60-V-Z - Silicone Keypad/Handset/Armored Cord
- DTR-51-V-Z - Direct Call Ringdown/Volume Control Handset/Heavy duty Curly Cord.
- DTR-61-V-Z - Direct Call Ringdown/Volume Control Handset/Armored Cord.

FEATURES and BENEFITS

- IECEx Zone 1, Zone 21 approved – T4 rated.
- VoIP Sitara Class Control Module
  - The new OS with web interface to support product configuration easier with logs and status bars. Enhanced self-diagnostics. Interactive help.
  - Supports the latest security protocols (ie: TLS1.2) while still maintaining backwards compatibility.
  - SSL Certificates are supported. Web Interface Screen for SSL. Allows import of web, client and auto provisioning Client Certificates.
  - Compatible with SIP-based IP-PBX servers that comply with SIP (RFC 3261).
- PoE 802.3aT enabled (Power-over-Ethernet) or alternate power source (24VDC).
- IP66 compliant, static dissipative, high impact carbon loaded BMC industrial housing and ergonomic heavy duty handset.
- DTT-V-Z models only:
  - Back-lit LCD display – 2 line x 16 character: English, French or Spanish.
  - Optional Push To Talk (PTT) switch in handset to manually enable microphone.
  - Audio modes – handset and hands-free speaker phone.
  - Large urethane coated watertight silicon keypad
  - Autodial, memory, mute and menu configuration keys.
  - Programmable auto hang-up timer.
  - Can obtain IP address through LCD or audibly.
- Reversible base for desktop or wall mount configurations.
- Corrosion resistant hardware.
- Noise canceling microphone.
- Magnetic reed hook switch to reduce parts subject to wear.
- Service temperature range from -22˚ to +140˚F (-30˚ to +60˚C).
- Removable handset retainer latches on cradle.
- Hearing-aid compatible with t-coil enabled handset.
- Heavy duty curly handset cord on DTR-51-V-Z / DTT-50-V-Z or vandal resistant armored handset cord on DTT-60-V-Z / DTR-61-V-Z models.
- Two M20 and one M12 gland entries.
- Configurable Aux Relay (4.9A), Opto-Isolated Inputs and Outputs.
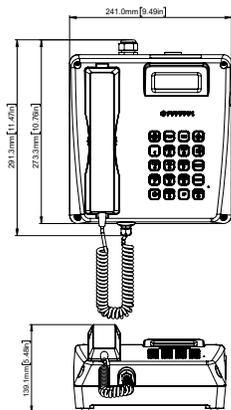
DT RANGE OF TELEPHONES

Guardian's DT RANGE are desk and wall mounted industrial telephones designed to provide safe, reliable communication in industrial areas that are prone to harmful environments, where consumer phones are not suitable. The phone is water and dust tight and is chemically resistant. It is also static dissipative making it ideal for areas sensitive to spark ignition.

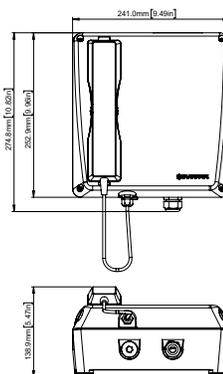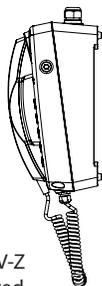## DTT-V-Z / DTR-V-Z SERIES OF TELEPHONES

Guardian's DTT-V-Z and DTR-V-Z SERIES - IECEx certified telephone products provide safety and protection in atmospheres where a mixture of air and flammable substances in the form of gas, dust, vapor or mist are present frequently, continuously or for long periods. It has a NEMA 4X, IP66 weather rating high impact carbon loaded BMC industrial housing and ergonomic heavy-duty handset without being housed in a separate enclosure.

Includes the new Guardian VoIP Sitara Class Control Module, fully redesigned with latest technology and enhancements and expandable and adaptable for future product development. Configuration changes can now be made and committed without a full reboot. Three drive partitions allows multiple versions of the firmware to be maintained. Logs and status bars are now included as part of the web interface. Improved hardware architecture to make field replacements of peripherals simple.

APPLICATIONS

Refineries	Sewage Plants	Power Generation Facilities
Drilling Rigs	Pulp and Paper Mills	Hydroelectric Facilities
Food Processing Plants	Warehouses	Chemical Plants
Mines	Material Sites	Greenhouses
Cement Plants	and more . . .	

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DTT-50-V-Z configured for desk mount

DTR-61-V-Z configured for wall mount

DTT-V-Z DTR-V-Z Series Industrial Desk/Wall VoIP Telephones and Ringdown Telephones

ENGINEERING SPECIFICATIONS

ELECTRICAL PERFORMANCE

Network Rate	10/100 Mbps
Protocol	SIP (RFC 3261 Compliant)
Codecs Supported:	G.711 (Mu-law)
	G.711 (A-law)
	G.729.1 (G729) and (G729EV)
	G.722.1 (SIREN7)
	G.722.2 (AMR-WB)

ELECTRICAL SPECIFICATIONS

Power Requirements
Method 1 – Thru LAN: POE 802.3aT	POE Switch OR via POE Injector
Method 2 – External PS:	24VDC @ 1A
Auxiliary Relay	4.9A, 250VAC/DC SPDT
Optical Isolated Inputs (qty 4)	15mA Max
	On-board current limited for 3-5V Input.
Optical Isolated Outputs (qty 4)	Max Switching Voltage: 30VDC @ 150mA

MECHANICAL SPECIFICATIONS

Hook Switch (Cradle Switch) Life	>1 000 000 Operations
Housing Material	High impact carbon loaded BMC
Handset Material	High impact carbon loaded BMC
Net Weight	8.68 lbs (3.95 kg)
Mounting	Desk or Wall
Microphone	Noise Canceling
Receiver	Hearing Aid Compatible (w/t-coil)
Hardware Material	Stainless Steel
Wiring Access	2 x M20 & 1 x M12 Cable Gland Entry Points

ENVIRONMENTAL

Service Temp:	-22˚ to +140˚F (-30˚ to +60˚C)*
Storage Temp:	-58˚ to +176˚F (-50˚ to +80˚C)*

*At below -4˚F (-20˚C) the LCD may stop functioning. This will not impede telephone operation. Display will return when temperature returns to the LCD operating range for the DTTV models.
Ingress Protection	(NEMA 4X) IP66
Humidity	0 to 95% RH

COMPLIANCE

IECEX ZONE 1	Ex eb ib mb IIC T4 Gb
	Ex ib mb tb IIIC T135°C Db
	Ta = -30°C to +60°C
FCC	Title 47, Part 15
Canada	ICES-003 / NMB-A
European Commission Directives:	2014/30/EU & 2014/35/EU
	EN55032:2015
	EN55035:2017/A11:2020

* Refer to Guardian Telecom SDOC for additional details

† This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

SHIPPING SPECIFICATIONS

Shipping Carton Weight	10.7 lbs (4.9 kg)
Shipping Carton Dimensions (L x W x D)	16.0" x 10.5" x 9.5" (407 x 267 x 242 mm)

*VoIP SITARA CLASS CONTROL MODULE CONFIGURATION ENHANCEMENTS

Easy one click activation for device changes - no full reboot required.
Keypad Mode Select – Choose between ring down or lock out keypad functionality.
Timed Auto-Answer allows selectable rings before auto-answer.
User defined I/0 monitoring and notification events with iGuard.
Improved auto provisioning for f/w / configuration updates.

*VoIP SITARA CLASS CONTROL MODULE HARDWARE ENHANCEMENTS

Expanded Keypad interface provides ample opportunity for custom applications.
New Screwless Terminal Block for ease of installation.
New User Controllable DC Relay with 4.9A @ 250VAC Rated Contacts.
4 Opto-Isolated inputs - Can use for monitoring external sensors, alarms, etc.
4 Opto-Isolated Outputs - Can use for control of external devices.

ORDERING INFORMATION   Warranty: Five year parts and labor

Order No.	Description	
P3050	DTT-50-V-Z	Telephone/Silicon Keypad /Volume Control on Keypad/Curly Cord
P3052	DTT-60-V-Z	Telephone/Silicon Keypad/Volume Control on Keypad/Armored Cord
P3053	DTR-51-V-Z	Ringdown Telephone/Curly Handset Cord
P3054	DTR-61-V-Z	Ringdown Telephone/Armored Handset Cord

Options
20C-DTR	20ft (6.1m) Curly Handset Cord
20A-DTR	20ft (6.1m) Armored Handset Cord
¹ Headset	Contact a Guardian Telecom sales representative for details.
² Custom Colors	Custom colors are available. Minimum quantities or Premiums may apply. For details on custom options, contact Guardian Telecom sales.

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