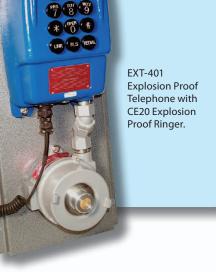
Guardian's EXT-401 Explosion Proof Telephone provides safe and reliable communication in Class I, Division 1



CONTRACTOR

3

REDIA

RIS

EXT-401 Explosion Proof Telephone

FEATURES and BENEFITS

- Over sized buttons for gloves-on operation
- Corrosion and moisture resistant circuitry
- Intrinsically safe handset with heavy duty cord
- Field replaceable handset and fuse
- Explosion proof, no isolation barrier required
- Copper-free cast aluminum housing
- Temperature range -40°F to +140°F (-40° to +60°C)

APPLICATIONS

These telephones are designed for use in locations with the highest hazardous area classifications such as:

- Chemical Plants
- Petrochemical Plants
- Offshore Drilling Rigs
- Missile Silos
- Gas Plants
- Refineries
- Fueling Stations
- Bulk Loading Stations
- Fertilizer Plants

- Defense Installations
- Munitions Storage Depots
- Land-based Drilling Rigs
- Liquefied Natural Gas Terminals
- Tankers and Tanker Depots
- Oil & Gas Metering Facilities
- Paint & Varnish Manufacturing Plants
- Grain Processing & Similar Industries
- Breweries and Distilleries
- and more . . .

INSTALLATION and CONNECTABILITY

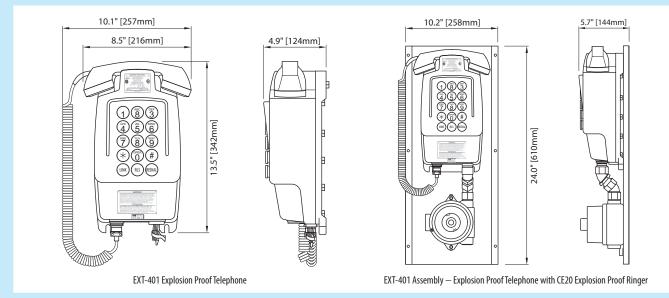
To provide flexibility and potential for growth, Guardian telephones are easily and economically connected to any telephone network by standard wiring and components. Voice quality is unaffected when phones are connected within 15,000 feet (~ 4,600 metres) of a main telephone switch accepting single line telephones. Meeting safety standards may require use of special wiring conduits or other considerations. The phone can be factory set for either tone or pulse operation.

ACCESSORIES and OPTIONS

- 20 ft. (6m) Handset Cord Field Replaceable Low Temperature Polymer Jacket
- Headset

- and Class II, Division 1 & 2 areas.
- Guardian Telecom Inc.

OVERALL DIMENSIONS



EXT-401 Explosion Proof Telephone

ENGINEERING SPECIFICATIONS

	ENGINEERING S	PECIFICATIONS			
ELECTRICAL PERFORMANCE Audio Range Frequency Response Dialing method Transmit Objective Loudness Rating (TOLR) Receiver Objective Loudness Rating (ROLR) – receiver volume at maximum – receiver volume at minimum Side Tone Objective Loudness Rating (SOLR) – receiver volume at minimum	300 - 3400 Hz DTMF or 40/60 Pulse @10 PPS Nominal -38 +/ - 3 dB Nominal 50 +/- 3 dB 41.9 +/- 3 dB 55.4 +/- 3 dB Nominal 8 +/- 4 dB 7 +/- 4 dB 14 +/-4 dB	COMPLIANCE Industry Canada CSA & UL	1012 6721 A Models with Volume Control: P4012 / P4030 / P4031 / P4032 CSA 158194 & UL E117495 Class I, Div. 1, Groups B, C and D; Class II, Div. 1 and 2, Groups E, F and G C22.2 No. 30 - M1986 / C22.2 No. 157 - 92 Intrinsically Safe and Non-incendive Equipment For Use in Hazardous Locations, Gaseous Mines, NRCan Certificate No. 976X		
Ringer Equivalence Number-REN Flash Redial CE20 Ringer Output Set Impedance Maximum Loop	0.4A w/o RDR, 0.8B c/w RDR 600 msec Timed Disconnect Maximum 13 Digits >75 dB 600 Ohms Nominal 15Kft (~4,600m) of 22 AWG Wire	ORDERING INF Order Number 1 The following n	Description	Warranty: One year parts and lab Buttons, they do not have <i>Volume Control</i>	
ELECTRICAL REQUIREMENTS Ringer Sensitivity Line Voltage Loop Current Connection Method Fuse (Externally Accessible)	40 -100 V, 16 - 25 Hz 24 - 56 VDC 20 - 120 mA Sealed External Wire 2AG Fast Acting	P4011 I P1011 I P4021 I P1021 I On the followin	P4011 No Enhancements* P1011 Backplate / CE20 Line Powered Ringer P4021 Ring Detect Relay (RDR)* P1021 Ring Detect Relay (RDR) / Backplate / CE20 Line Powered Ringer On the following models VOLUME CONTROL BUTTONS replace LINK & REDIAL		
MECHANICAL SPECIFICATIONS Hook Switch (Cradle Switch) Life Body Construction	>1 000 000 Operations Cast Copper Free Aluminum	P4030 P4031	/olumeControl/Backplate/ /olumeControl/Ring Detec	5	

meen miche of een fer fior	5	
Hook Switch (Cradle Switch) Life	1	>1 000 000 Operations
Body Construction		Cast Copper Free Aluminum
Finish		Hybrid Powder Coat Finish
Net Weight	EXT-401	21.0 lbs (9.6 kg)
	EXT-401 Assembly	32.0 lbs (14.5 kg)
Shipping Weight	EXT-401	22.0 lbs (10 kg)
	EXT-401 Assembly	33.0 lbs (15 kg)
Shipping Dimensions (L x W x D)	EXT-401	16.0" x 10.5" x 9.5" (407 x 267 x 242 mm)
	EXT-401 Assembly	27.0 "x 12.0" x 7.0" (686 x 305 x 178 mm)
Hand Set Construction		High Impact ABS
Hand Set Cord	10 ft (3m) Field Rep	aceable Low Temperature Polymer Jacket
Mounting		Vertical Wall
Microphone		Dynamic
Receiver		Hearing Aid Compatible
Hardware Material		Stainless Steel

ENVIRONMENTAL

Waterproof Enclosure Temperature Humidity Corrosion Resistant





-40° to +140°F (-40° to +60°C)

0 - 95% RH Non-Condensing

Epoxy Coated Circuit Boards

CSA Type 4X

(ISO 9001) Today's Quality Creates Our Future

7552 - 10th Street N.E., Calgary, Alberta, Canada T2E 8W1 Telephone: 403 258-3100 Facsimile: 403 253-4967 1-800-363-8010 (North America) info@guardiantele.com www.guardiantele.com

Warranty: One year parts and labor

Order Num	ber Description			
The following models have LINK & REDIAL Buttons, they do not have Volume Control				
P4011	No Enhancements*			
P1011	Backplate / CE20 Line Powered Ringer			
P4021	Ring Detect Relay (RDR)*			
P1021	Ring Detect Relay (RDR) / Backplate / CE20 Line Powered Ringer			
On the following models VOLUME CONTROL BUTTONS replace LINK & REDIAL				
P4012	Volume Control*			
P4030	Volume Control / Backplate / CE20 Line Powered Ringer			
P4031	Volume Control / Ring Detect Relay (RDR)*			
P4032	Volume Control / Ring Detect Relay (RDR) / Backplate / CE20 Line Powered Ringer			
Options				
, 6m HC	6m (20 ft) Handset Cord - Field Replaceable Low Temperature Polymer Jacket			
HS	Headset			
* Note: Telephone Requires External Signalling Device				

While the handset and fuse on the model EXT-401 is field replaceable, hazardous area equipment is not field serviceable. Please return equipment to the factory or an authorized depot for repairs.

Guardian pursues a policy of continuous improvement, therefore

specifications are subject to change without notice.

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