REDIAL EXT-401 **Explosion Proof** Telephone with CE20 Explosion Proof Ringer.

EX RANGE OF TELEPHONES

Guardian's EX RANGE are explosion proof equipment intended for use in the highest area classifications. These products are designed and constructed to contain explosions within the equipment. This prevents an explosion from igniting the hazardous atmosphere outside the unit.

EXT SERIES OF TELEPHONES

Guardian's EXT Explosion Proof Phone SERIES provides safe and reliable communications for Class I Division 1 and Class 2 Division 1 areas deemed to be hazardous due to the presence of flammable gas, vapor and dust.

EXT-401 Explosion Proof Telephone

EXT SERIES OUTDOOR/INDOOR INDUSTRIAL ANALOG HAZARDOUS TELEPHONES

- EXT-401 8 VARIATIONS: 1. Base Model / 2. CE20 Ringer, Backplate / 3. RDR / 4. RDR, CE20, Backplate / 5. RDR, Headset / 6. Headset instead of Handset / 7. RDR, Headset, CE20, Ringer, Backplate / 8. Headset, CE20 Ringer, Backplate
- HS-EXT-401 HEADSET Field replacement for standard handset on EXT-401 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)
- · Alternate models available with volume control in lieu of Link and Redial

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
Aunitions Storage Depots
Land-based Drilling Rigs
Liquefied Natural Gas Terminals
Tankers and Tanker Depots
Refineries
Oil & Gas Metering Facilities

Fueling Stations Paint & Varnish Manufacturing Plants
Bulk Loading Stations Grain Processing & Similar Industries

Fertilizer Plants Breweries and Distilleries

and more . . .

INSTALLATION and CONNECTABILITY

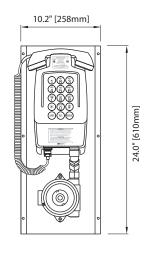
To provide flexibility and potential for growth, Guardian telephones are easily and economically connected to any telephone network by standard wiring and components. Voice quality is unaffected when phones are connected within 15,000 feet (~ 4,600 metres) of a main telephone switch accepting single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







10.1" [257mm] 8.5" [216mm] 4.9" [124mm] (0.00) (





EXT-401 Assembly
— Explosion Proof
Telephone with CE20
Explosion Proof Ringer

EXT-401 Explosion Proof Telephone

ENGINEERING SPECIFICATIONS

600 Ohms Nominal

15Kft (\sim 4,600m) of 22 AWG Wire

FLECTRICAL 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 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 8 +/- 4 dB - receiver volume at maximum 7 +/- 4 dB - receiver volume at minimum 14 + / - 4 dBRinger Equivalence Number-REN 0.4A w/o RDR, 0.8B c/w RDR 600 mSec Timed Disconnect Flash Redial Maximum 13 Digits CE20 Ringer Output ≥75 dB

ELECTRICAL REQUIREMENTS

Set Impedance

Maximum Loop

Ringer Sensitivity 40 -100 V, 16 - 25 Hz
Line Voltage 24 - 56 VDC
Loop Current 20 - 120 mA
Connection Method Sealed External Wire
Fuse (Externally Accessible) 0.25 Amp 2AG Fast Acting

MECHANICAL SPECIFICATIONS

Hook Switch (Cradle Switch) Life >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 (LxWxD) EXT-401 16.0" x 10.5" x 9.5" (407 x 267 x 242 mm) EXT-401 Assembly 15.0 "x 28.0" x 11.0" (381 x 711 x 280 mm) Hand Set Construction High Impact Polycarbonyte 10 ft (3m) Field Replaceable Low Temperature Polymer Jacket Hand Set Cord Mounting Vertical Wall Microphone Dvnamic **Hearing Aid Compatible** Receiver Hardware Material Stainless Steel

ENVIRONMENTAL

Waterproof Enclosure CSA Type 4
Temperature -40° to +140° F (-40° to +60°C)
Humidity 0 - 95% RH Non-Condensing
Corrosion Resistant Epoxy Coated Circuit Boards

COMPLIANCE

Industry Canada CSA & UL





Models with Volume Control – 1012 6721 A 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

ORDERING INFORMATION

Warranty: Three years parts and labor

Order No. Description

The following models have LINK & REDIAL Buttons, they do not have Volume Control

P4011 Base Model*

P1011 CE20 Line Powered Ringer / Backplate

P4021 Ring Detect Relay (RDR)*

P1021 Ring Detect Relay (RDR) / CE20 Line Powered Ringer / Backplate

P4022 Ring Detect Relay / Headset P4023 Headset (in lieu of Handset)

P4036 Ring Detect Relay (RDR) / Headset / CE20 Line Powered Ringer / Backplate

P4038 Headset / CE20 Line Powered Ringer / Backplate

On the following models Volume Control Buttons replace LINK & REDIAL

P4012 Base Model*

P4030 CE20 Line Powered Ringer / Backplate

P4031 Ring Detect Relay (RDR)*

P4032 Ring Detect Relay (RDR) / CE20 Line Powered Ringer / Backplate

P4033 Headset (in lieu of Handset)

P4034 Headset / CE20 Line Powered Ringer / Backplate

P4035 Headset / Ring Detect Relay (RDR)

P4037 Headset / Ring Detect Relay (RDR) / CE20 Line Powered Ringer / Backplate

Options

22AC-401 22" (0.6m) Armored Handset Cord in Lieu of Standard Curly Cord

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

P4042 Headset Kit (replaces handset)

* Note: Telephone Requires External Signaling 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.

Distributed by:





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