

Minelec Limited

29140/C

**ROBUST, INDUSTRIAL
WALLMOUNT TELEPHONE
FOR USE IN PUBLIC AREAS**

29140-C WALLMOUNT TELEPHONE

Description

This version of the 29000 series telephone is designed to provide a compact, heavy duty, robust keypad operated telephone for use in tough industrial environments.

With a #14AWG stainless steel enclosure, the telephone provides superior mechanical protection and utilizes a chrome plated moving cradle hookswitch and weatherproof keypad. A heavy duty PVC cord and handset coupled with a 90dB @ 90 Vrms, 20Hz. ringer ensure that the physical properties of the design meet customer expectations.

Using surface mount components allows both a small pcb. footprint and a minimal loop current of 16ma. and the use of individual color coded screw terminals facilitates easy user servicing and orientation of components.

Software features include an automatic off-hook timer that will free up additional telephones on a party line if the handset is accidentally left off-hook.

Features

- #14AWG Stainless Steel enclosure
- Weatherproof, Braille embossed keypad
- Uses surface mount components & microprocessor
- Heavy duty design - optional tamper resist hardware
- Small overall footprint
- Universal backbox allows conduit entry in top or bottom
- High output 90v ac. warble tone ringer -0.8 B
- Moving cradle hookswitch -isolates both Tip & Ring
- Operates with minimum loop current of 16 ma.
- Easy to install -conduit knockouts in enclosure



29140-C Wallmount Telephone

Architects and Engineers Specifications

The keypad operated telephone shall be a Minelec 29140-C or approved equal. The telephone enclosure and front panel shall be manufactured from #14AWG stainless steel and have a 1/2" NPT conduit knockout in one end of the enclosure. The backbox shall be designed to allow mounting for use with either a top or bottom entry gland.

The telephone shall be fitted with a chrome plated weatherproof keypad with Braille embossed buttons. The telephone pcb shall use surface mount components and shall include a microprocessor. The telephone shall provide an automatic off-hook timer that places the telephone 'on-hook' even if the handset remains off-hook. An electronic high output 90v ac warble tone ringer shall be fitted complete a stainless protective grille. The telephone pcb. shall incorporate color coded screw terminals for all user terminations. The telephone shall operate when drawing 16ma. loop current. The dimensions of the enclosure shall be 10"H x 5"W x 2.375"D and shall weigh 5.2lbs.

GENERAL SPECIFICATIONS

The 29140-C keypad telephone is designed to withstand the effects of operation in a hostile environment. Significant design effort and customer input led to the development of a telephone that stands up well to continued use in a harsh and rugged location with many innovative features..

Features:

Works with a minimum of 16ma. loop current - allows multiple phones on one standard analogue line.
Software features include an automatic 'off-hook' time out. Electronically places telephone on-hook allowing other party line telephones to operate, even when handset left off-hook. .
Uses color coded screw terminals that match all user – component wiring colors.
PCB. is conformal coated - provides environmental protection against dust, dirt & moisture.
On-board keypad Test LED - flashes in response to keys being pressed.
The use of a moving cradle hookswitch eliminates the problems encountered when using magnetic proximity hookswitches in any location potentially affected by magnetic (EMF) fields.
The use of a #14AWG stainless steel backbox and front panel provides enhanced resistance to rust when installed in damp/wet environments
Designed to operate in harsh Canadian environments –30C to +70C.
High output warble tone electronic ringer provides up to 90dB @ 90 Vrms 20-30 Hz. at 24” at 25 Deg. C.
Ringer equivalency of 0.8 B.
Works from C.O. operating voltage range of 24vdc to 48vdc.
The use of a braille embossed chrome plated weatherproof keypad assists handicapped users.
Heavy duty handset and PVC cord.
Uses compression gland for handset cable attachment.
Front panel gasket.
All components mounted to removable faceplate
Blank replacement faceplate cover available
Stainless Mesh over ringer grille.
Stainless hardware used
Backbox designed with universal mounting holes that allows a 1/2” NPT conduit knockout in one end to be used for top or bottom entry.
The use of Surface Mount Components and on-board microprocessor reduces size of pcb. footprint.
Two 1/2” conduit knockouts on rear of backbox.
Size of enclosure 10”H x 5W x 2.375” D.
Designed and manufactured in Mississauga Canada.

Technical Parameters:

Frequency Response:	300 to 3000 Hz
Minimum Loop Current:	16ma.
Ringer Equivalency:	0.8 B
Operating Voltage:	-24vdc to –48Vdc
USOC:	Screw terminals
DTMF:	100ms burst
LED:	Keypad functionality check
HookSwitch:	Chrome Plated, Weatherproof, Software time out feature
Operating Temp.:	-30C to + 60 Deg C
Ringer Output:	90 dB(A) @ 90 Vrms, 20Hz at 24 inches at 25 deg. C
Ringer Transients:	Withstands voltage transients for up to 2000V for 100 microseconds
Bell Tapping Suppression:	Suppress dialing, hook switch and random line impulses for up to 800V for 2 milliseconds.
Enclosure/Front Panel:	#14AWG #306 Stainless Steel
Handset/Cord:	Black PVC cord and ABS Thermoplastic