

# PCI Approved Triple DES ENCRYPTING PINPAD



## Part Numbers:

1K12U204

12 keys; encrypted text only

1K12U205

12 keys; clear and encrypted text

1K16U204

16 keys; encrypted text only

1K16U205

16 keys; clear and encrypted text

## FEATURES

- USB or Serial communication
- IP65 / NEMA 4 Sealed From the Front
- Vandal Resistant
- DES, 3-DES, DUKPT, and MasterSession

Payment Card Industry (PCI) Approved PINpad combine an all-metal vandal resistant NEMA 4 keypad with **DES and 3-DES encrypting electronics** to facilitate debit or credit card transactions at payment stations.

### KEYPAD

The keypad is all-metal, marine quality finish, and sealed to IP 65 / NEMA 4 from the front; it offers excellent tactile feedback with each keystroke. The key tops are engraved, backfilled for long life, and include a raised pip on the 5-key and raised function symbols to aide sight-impaired customers (see ADA Advisory 707). In addition to excellent sealing characteristics, the keypad is **vandal and impact resistant**, allowing the keypad to be deployed in unsupervised environments.

### ENCRYPTING ELECTRONICS

Encrypting electronics accept key presses from the keypad and report encrypted PIN information to banking institutions' host computer. To enhance end-user interaction, PINpads also provide audible feedback anytime a key is pressed. Both MasterSession and DUKPT encryption key management protocols supported.

### CLEAR vs. ENCRYPTED TEXT

Standard models (204) are designed for PIN entry only; 205 models allow clear menu and encrypted PIN entry. 205's requires increased physical and logical security of application.

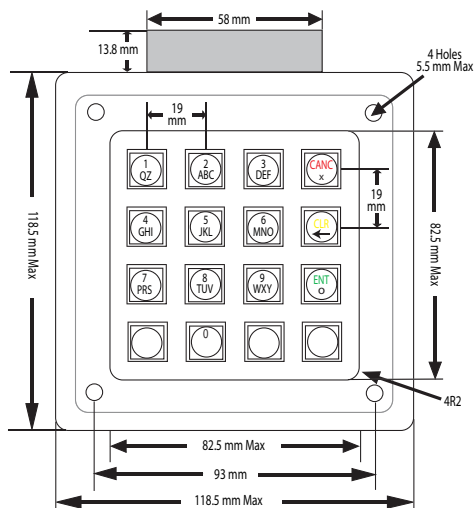


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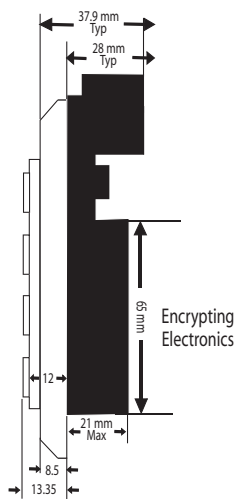
# PRODUCT SPECIFICATIONS

(DIMENSIONS IN MILLIMETERS)\*

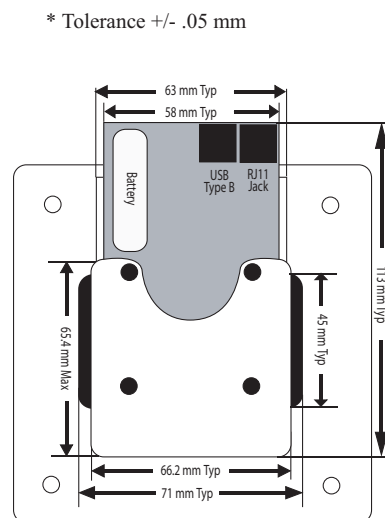
4X4 KEYPAD



FRONT



SIDE

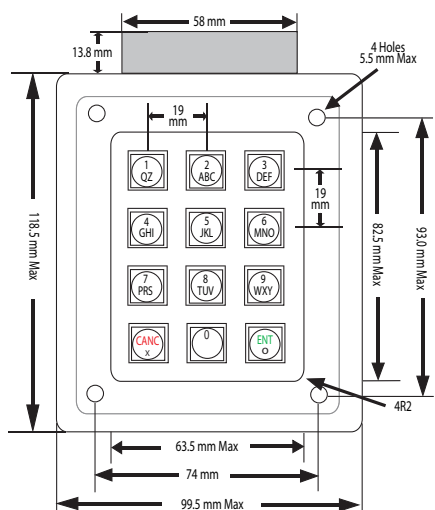


BACK

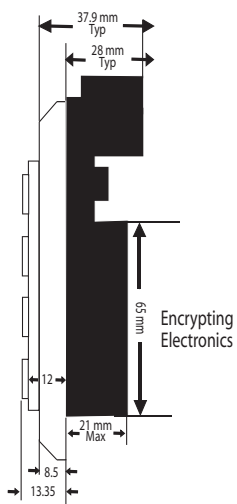


1=Ground  
2=Rx  
3=Tx  
4=12Vt

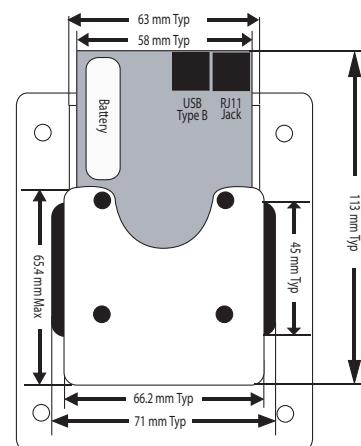
3X4 KEYPAD



FRONT



SIDE



BACK



1=Ground  
2=Rx  
3=Tx  
4=12Vt

\* Tolerance +/- .05 mm

## ENCRYPTION SPECIFICATIONS

- Single DES
- Triple DES
- MasterSession
- DUKPT (Derived Unique Key Per Transaction)
- MAC (Message Authentication Code)
- Double Length Keys

## CONSTRUCTION

- All-metal chrome keypad
- Excellent tactile and audio feedback
- Vandal resistant design
- Sealed to IP65 / NEMA 4 from the front
- Key Cycle Operational Life: 4 million cycles

## ENVIRONMENT

- Operating Temperature: -40C to +80C
- Storage Temperature: -40C to +80C

## COMMUNICATION

- RJ-11 jack and USB Type B port (software interface required)
- ASCII

## GRAPHICS

- Engraved and backfilled for long life
- Pip on 5 for visually impaired users
- Tactile symbols on function keys (see ADA Advisory 707)

## CERTIFICATIONS

- ANSI 3.92 - 1981 and ANSI 9.52 - 1998
- ANSI 9.24 - 1998 and ANSI 9.24 - 2000
- PCI 1.0 Certification

## POWER

- Voltage: 7.5V DC (min); 12V DC (typ); 15.0V DC (max)
- Current: 15mA (typ); 30mA (max)
- Battery: 3V