



PINpad 1000se

Installation Guide

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This guide is the primary source of information for setting up and installing PINpad 1000sE units.

Audience This guide provides simple descriptions of PINpad 1000sE features, as well as basic information for anyone installing and configuring PINpad 1000sE devices.

Organization This guide is organized as follows:

Chapter 1, Introduction. Provides an overview of PINpad 1000sE units.

Chapter 2, Setup. Explains set up and installation of PINpad 1000sE units. This chapter tells how to select a location and establish connections with other devices.

Chapter 3, Specifications. Discusses power requirements and dimensions of PINpad 1000SE units.

Chapter 4, Service and Support. Provides information on cleaning PINpad 1000SE units, contacting your VeriFone representative or service provider, as well as information on how to order accessories or documentation from VeriFone.

Chapter 5, Troubleshooting Guidelines. Provides troubleshooting guidelines should you encounter a problem in terminal installation and configuration.

Related Documentation

To learn more about PINpad 1000sE units, documents, and their associated VeriFone Part Numbers (VPN):

- PINpad 1000sE Certifications and Regulations, VPN 22900
- PINpad 1000se Quick Installation Guide, VPN 22901
- PINpad 1000sE Reference and Programmers Manual, VPN 22903
- PINpad 1000sE Stand Adapter Quick Installation Guide, VPN 22906

Guide Conventions

Various conventions are used to help quickly identify special formatting. Table 1 describes these conventions and provides examples of their use.

Table 1	Document Conventions	
Convention	Meaning	Example
Blue	Text in blue indicates terms that are cross references.	See Guide Conventions.
Italics	Italic typeface indicates book titles or emphasis.	You <i>must</i> not use this unit underwater.
	The pencil icon is used to highlight important information.	RS232-type cannot be connected directly to the PINpad 1000sE port.
	The caution symbol indicates hardware or software failure, or loss of data.	The unit is not waterproof and is intended for indoor use only.
WARNIN	The lighting symbol is used as a warning when bodily injury might occur.	Due to risk of shock do not use the terminal near water.



Introduction

This chapter provides a brief description of VeriFone's PINpad 1000sE device.

Unit Overview

The PINpad 1000SE device is a peripheral data entry device that accepts and encrypts Personal Identification Numbers (PINs). Typically, a PIN is a four- to twelve-digit code known only by the customer and the issuer. A PIN is used during transactions to verify that a customer is authorized to use the account (card) offered. The PIN also serves as the electronic signature for the credit or debit transaction.



Figure 1 PINpad 1000se Unit

VeriFone's PINpad 1000sE device builds on the success of legacy PINpad 1000 and PINpad 101 families, adding support for Triple Data Encryption Standard (3DES) security and improved ergonomics — all in a rugged, reliable backward-compatible solution.

The PINpad 1000SE provides the perfect solution for acquirers, processors, and merchants looking to capitalize on the expanding range of debit, electronic benefits transfer (EBT), and other PIN-based transactions. This compact, easy-to-use device connects to most existing point-of-sale (POS) controllers such as VeriFone Omni or TRANZ transaction terminals, ZON II microcomputers, or other microcomputer-based systems. The controller directs all PINpad device operations, including communication with the remote host computer, if applicable, and offers a fast, simple way to be accept the latest in PIN-based transactions.

The PED-compliant PINpad 1000SE incorporates a broad array of sophisticated security features to guard against fraud and abuse. This includes full support for the 3DES encryption standard, and a choice of Master/Session or DUKPT (Derived Unique Key Per Transaction) key management methods. The PINpad 1000SE also supports MAC (Message Authentication Code) to protect debit transaction data from accidental or fraudulent tampering during transfer to its host.

The PINpad 1000sE features improved ergonomics with large, hard-rubber keys for ease of use, and a sleek new design that fits in the palm of a hand. The device is rugged and reliable, built to withstand the hard knocks at the point of sale. Most importantly, the PINpad 1000sE is fully compatible with the legacy PINpad 1000 and PINpad 101 families.

Features and Benefits

Exceptional Ease of Use and Ergonomics

- Sleek and stylish shape occupies less counter space than the PINpad 1000.
- Bold, ergonomic design fits comfortably in the palm of a hand and grip-zone texture on the case provides a better grip.
- Large, hard-rubber keys provide improved tactile feedback, minimizing errors and maximizing ease-of-use for consumers of all ages.
- Intuitive telco-style interface and colored control keys simplify training and reduce support requests.
- Programmable function keys allows selection of functions within an application.
- Highly readable 8-character liquid crystal display supports multiple languages for global applications and automatically scrolls through up to 16 characters.

Critical Security Protection

- Includes full support for single and 3DES encryption standard.
- Offers a choice of Master/Session or DUKPT key-management methods to protect PIN-based transactions.
- Offers secure, reliable PIN input for expanding range of PIN-based transactions.
- Is PED-compliant for secure solutions meeting the PED standard.
- Meets ISO and ANSI standards for PIN encryption, key management, and MAC.
- Incorporates tamper-detection glued case to resist unauthorized intrusion and supports a broad spectrum of software-based security features.
- Key injection simplified and secured with VeriFone's SecureKit key loading software.

Strong Flexibility

- Rugged and reliable design absorbs the hard knocks found at POS.
- Removable privacy shield offers option of supplemental physical security.
- Optional key overlays allow localizing by language.
- Well-planned shape works with existing VeriFone PINpad stands and wall- or counter-mounting hardware.
- Connects with most POS payment terminals, PCs, and ECRs.
- Backward-compatible with VeriFone's PINpad 1000 and PINpad 101 legacy families.

INTRODUCTION Features and Benefits



Setup

This chapter describes the setup procedure for PINpad 1000SE units, in the following sections:

- Select Location
- Unpack Shipping Carton
- Examine Unit Features
- Connect Unit to Controller
- Connect Unit to a PC/AT (optional)
- Use Stand Adapter
- Use Privacy Shield
- Use Unit

Select Location Use t

Use the following guidelines to select the best location for the PINpad 1000SE unit.

Ease of Use • S	Select a location convenient for both merchant and cardholder.
-----------------	--

- Select a flat support surface, such as a countertop or table.
- Select a location near a power outlet and the terminal or computer connected to the PINpad 1000sE unit. For safety, do not string cables or cords across a walkway.

Environmental Factors • Do not use the unit where there is high heat, dust, humidity, moisture, or caustic chemicals or oils.

- Keep the unit away from direct sunlight and anything that radiates heat, such as a stove or a motor.
- Do not use the PINpad 1000sE unit outdoors.



The PINpad 1000sE unit is not waterproof or dustproof, and is intended for indoor use only. Any damage to the unit from exposure to rain or dust can void any warranty.

Electrical	Avoid using this product during electrical storms.			
Considerations	 Avoid locations near electrical appliances or other devices that cause excessive voltage fluctuations or emit electrical noise (for example, air conditioners, electric motors, neon signs, high-frequency or magnetic security devices, or computer equipment). 			
	• Do not use the PINpad 1000sE unit near water or in moist conditions.			
WARNING	Due to risk of shock or damage, do not use the PINpad 1000SE unit near water, including a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, o near a swimming pool.			
Unpack Shipping Carton	Carefully inspect the shipping carton and its content for possible tampering or damage. The PINpad 1000sE device is a secure product and any tampering can cause it to cease to function or operate in an unsecured manner.			
	1 Remove the PINpad 1000sE unit from the shipping carton.			
	2 Remove any protective plastic wrap and place the unit on a table or countertop.			
	3 Remove the clear protective film from the display.			
	4 Replace all the packing materials, close the lid, and save the carton for repacking or moving the PINpad 1000sE device in the future.			
WARNING	Do not use a unit that has been tampered with or otherwise damaged.			
43	The PINpad 1000sE unit comes equipped with tamper-evident labels. If a label or			
~	component appears damaged, immediately notify the shipping company and your			

The PINpad 1000SE unit comes equipped with tamper-evident labels. If a label or component appears damaged, immediately notify the shipping company and your VeriFone representative or service provider immediately.

Examine Unit Features

Before continuing the installation process, observe features of the PINpad 1000sE unit. Figure 2 illustrates the basic features:

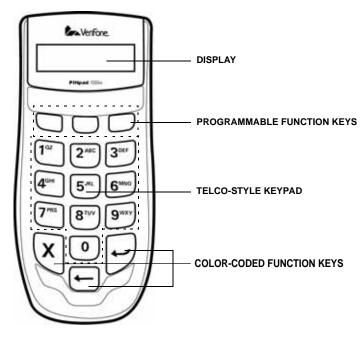
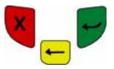


Figure 2 PINpad 1000se Features

The PINpad 1000sE unit includes the following features:

- A display.
- Three types of keys:
 - A 10-key, telco-style keypad.
 - Three unlabeled, programmable function keys above the keypad.
 - Three color-coded function keys below the keypad (icons at right, left-to-right: CLEAR, BACKSPACE, ENTER).



Connect Unit to Controller

The PINpad 1000sE rear panel has a modular, four-wire interface port for power and communication connection to the controller.

WARNING

Turn off or unplug the controller when connecting or disconnecting the PINpad 1000sE unit. Memory corruption and data loss can result if the controller is processing data when power is removed.

Refer to the controller device instructions for any controller-specific warnings.

Figure 3 illustrates how to connect the PINpad 1000SE device to an Omni 37xx series terminal. For other terminal or controller connections, refer to the reference manual for that controller.

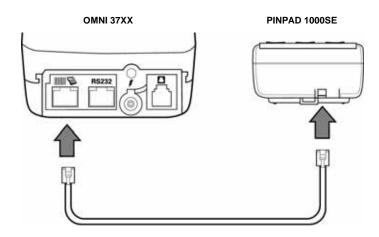
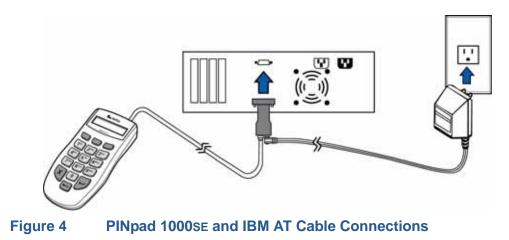


Figure 3 PINpad 1000sE and Terminal Cable Connections

- 1 Disconnect power from the terminal.
- 2 Connect the modular plug on the cable to the modular jack on the rear of the PINpad 1000sE device.
- 3 Connect the other end of the cable to the PINpad port on the rear of the terminal.
- 4 Reconnect power to the terminal.

Connect Unit to a PC/AT (optional) If the PINpad 1000sE device is going to be connected to an IBM PC/AT or compatible for general use, or the PC/AT will be running MKIXOR software for key insertion, VeriFone sells special cable products to provide power to run the PINpad 1000sE (refer to Accessories and Documentation). Figure 4 illustrates how to connect the PINpad 1000sE to an IBM AT or compatible computers.



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1 Disconnect power from the PC/AT. 2 Connect the end of the cord with the DB25/DB9 connector to the PC/AT. 3 Connect the modular plug on the other end of the cord to the PINpad 1000SE device. 4 Plug the power supply cord into the socket at the base of the PC/AT connector. Plug the power supply into an AC wall outlet. 5 Reconnect power to the PC/AT. 6 CAUTION Using an incorrectly rated power supply can damage the unit or cause it not to work properly. VeriFone recommends using only VFN# CPS04951-xx but supports VFN# CPS11220-3A if used with a country-specific power cord (see Specifications for detailed power supply specifications). **Use Stand** The optional stand adapter holds the PINpad 1000sE unit securely to a countertop Adapter or a wall. The unit can be removed from the stand adapter anytime for handheld operation. Mounting the Figure 5 shows how to install a stand adapter onto a pre-existing flat mounting Adapter to Plate plate. Select a location for the stand adapter on a smooth wall or countertop. Be 1 sure the cable can easily reach the controller from this position without stretching. 2 Position the keyholes on the molded cradle over the slotted screws on mounting plate. Slide the adapter downward until the screws are in the narrow ends of the keyholes.

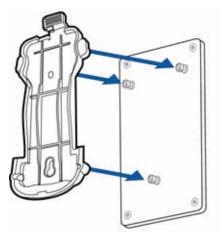




Figure 5

Stand Adapter Installation

Screw-Mounting the Adapter

The stand adapter may also be screwed directly to a wall or countertop.

- Use screw anchors when fastening the adapter to a cement or brick wall.
- When fastening the plate to drywall, the screws must go into the studs behind the wall. Screw anchors alone will not safely hold the adapter to drywall.

To screw-mount the stand adaptor, use American National Standard #8 or Metric M3 screws, with head diameter between 4.5 and 6.0mm, and head thickness less than 2.5mm. Use the stand adaptor to mark the hole placement on the desired location, and then insert screws, adjust the screw depth until the unit is firmly mounted.

Using the Stand Adapter

Figure 6 shows how to insert a PINpad 1000SE unit into a stand adapter. Slide the end of the PINpad 1000SE unit into the bottom of the stand adapter, then press the screen end of the PINpad 1000SE unit firmly into the top of the stand adapter until you hear and feel the release lever click.

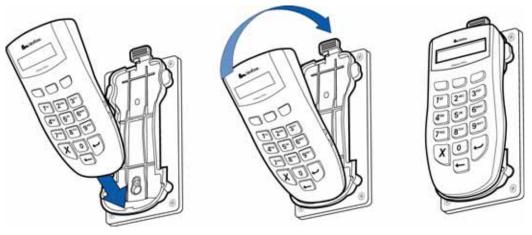
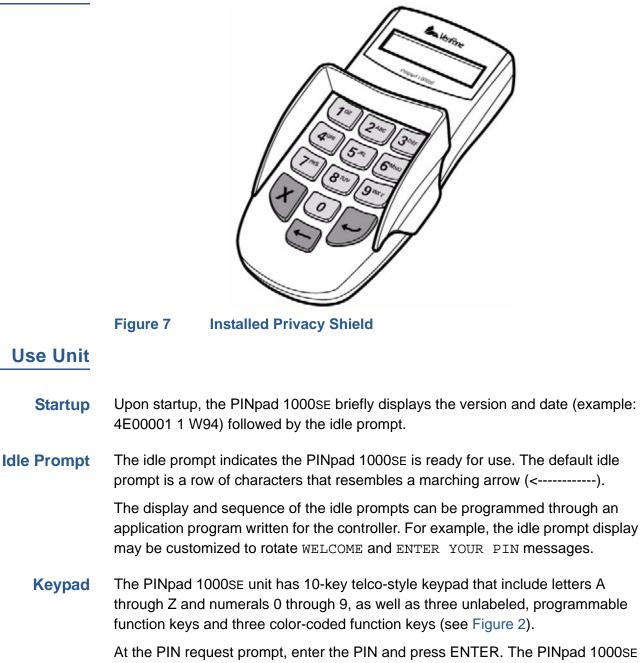


Figure 6 Inserting the PINpad 1000sE device into the Stand Adapter

Removal is simply the reverse: press the release lever at the top of the stand adapter and pull the PINpad 1000SE unit up and out of the stand adapter.

Use Privacy Shield

Figure 7 shows an example of an installed privacy shield.



At the PIN request prompt, enter the PIN and press ENTER. The PINpad 1000SE rotates a processing display when it successfully receives the PIN entry.



Press CLEAR once to clear the last number.

Press CLEAR twice to cancel the transaction.

SETUP Use Unit



Specifications

	This chapter discusses power requirements, dimensions, and other specifications of the PINpad 1000sE unit.		
Unit Power Requirements	PINpad 1000se unit: 6-14 V DC maximum power 36.5mA		
Temperature	Operating temperature: 0° to 40° C (32° to 104° F)		
Humidity	Relative humidity: 15% to 90%; no condensation		
External Dimensions	 Length: 150 mm (5.90 in) Width: 68 mm (2.68 in) Depth: 37 mm (1.46 in) 		
Weight	Unit weight: 190 gms (6.67 oz.)		
	Shipping weight: 330 g (.15 lb.)		
	The shipping weight includes: shipping carton, unit, one PINpad 1000sE Quick		

Installation Guide, and one PINpad 1000sE Certifications and Regulations.

SPECIFICATIONS *Weight*



Service and Support

Maintenance and Cleaning

PINpad 1000SE units have no user-serviceable parts. Unless otherwise instructed, do not, under any circumstances, attempt any service, adjustments, or repairs on this unit.

To clean the unit, periodically use a clean cloth slightly dampened with water and a drop or two of mild soap. For stubborn stains, use alcohol or an alcohol-based cleaner. For best results, use a Verifone Cleaning Kit (refer to Accessories and Documentation).



Never use thinner, trichloroethylene, or ketone-based solvents – they can deteriorate plastic or rubber parts.

Because the PINpad 1000SE unit can be damaged by liquid, do not spray cleaners or other solutions directly onto the keypad or display. Always apply the cleaner to a cloth before cleaning the device.

Service Returns

For PINpad 1000SE equipment failures that cannot be resolved by your help desk or service department, contact one of the following hotlines for product service and repair information:

- USA VeriFone Service and Support Group, 1-800-834-9133, Monday - Friday, 8 A.M. - 7 P.M., EST
- International Contact your VeriFone representative

Before returning PINpad 1000SE unit(s) to VeriFone, you must obtain a Merchandise Return Authorization (MRA) number. The following procedure describes how to return one or more PINpad 1000SE units for repair or replacement (U.S. customers only).



International customers, please contact your local VeriFone representative for assistance with your service, return, or replacement.

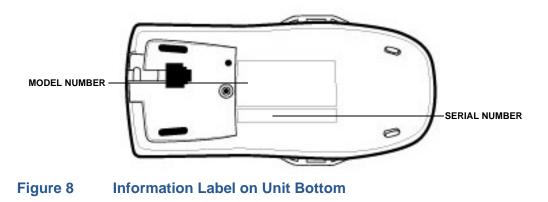
- 1 Gather the following information from the printed labels (see Figure 8) on the bottom of *each* PINpad 1000sE unit to be returned:
 - Product ID, including the model and part number. For example, "P003-160-01."
 - Serial number (S/N xxx-xxx-xxx)
- 2 Within the United States, call VeriFone toll-free at 1-800-834-9133.

- 3 Select the MRA option from the automated message. The MRA department is open Monday–Friday, 8 A.M.–7 P.M., EST.
- 4 Give the MRA representative the information gathered in Step 1. If the list of serial numbers is long, you can fax the list, along with the information gathered in Step 1, to the MRA department at 1-727-953-4172 (U.S.)
 - Please address the fax clearly to the attention of the "VeriFone MRA Dept."
 - Include a telephone number where you can be reached, as well as your fax number.
 - You will be issued MRA number(s) and the fax will be returned to you.



One MRA number must be issued for each PINpad 1000sE unit you return to VeriFone, even if you are returning several of the same model.

- 5 Describe the problem(s).
- 6 Provide the shipping address where the repaired or replacement unit must be returned.
- 7 Keep a record of the following items:
 - Assigned MRA number(s).
 - VeriFone serial number assigned to the PINpad 1000SE unit(s) you are returning for service or repair (serial numbers are located on the bottom of the unit (see Figure 8).
 - Shipping documentation, such as air bill numbers used to trace the shipment.
 - Model(s) returned (model numbers are located on the VeriFone label on the bottom of the PINpad 1000sE unit).



Accessories
andVeriFone produces accessories and documentation for the PINpad 1000sE unit.
When ordering, please refer to the part number in the left column.

Documentation

- VeriFone Online Store at www.store.verifone.com
- USA VeriFone Customer Development Center, 1-800-VeriFone (837-4366) Monday - Friday, 7 A.M. - 5 P.M., MST
- International Contact your VeriFone representative

Cables	Contact your local VeriFone distributor to determine which cable fits your needs.		
	07042-xx	4PC plug to MOD10 plug, coiled (Omni 32xx, 33xx, 36xx, or 37xx Series Terminals)	
	10441-xx	4PC plug to 6-pin DIN plug, coiled (most Tranz terminals)	
	01582-xx	4PC plug to 6-pin DIN plug, straight (most Tranz terminals)	
	03021-xx	4PC plug to 6-pin mini-DIN plug, coiled (Omni 4xx and 7000MPD terminals, as well as Everest and Everest <i>Plus</i> terminals)	
NOTE		en e	



Cables with -xx part number suffixes have multiple available lengths.

Power Supply	CPS04951-xx CPS11220-3A	DC power supply DC power pack (universal)	
NOTE	supports different va country where it will	number suffixes have multiple available versions. VeriFone riants of the CPS04951-xx power supply based on the be used. Contact your local VeriFone representative or dentify the best power supply for your needs.	
Power Cord	07152-xx	United States of America	
NOTE	VeriFone supports different power cords based on the country where they will be used. Contact your local VeriFone representative or service provider to identify the best power supply for your needs.		
PC/AT Interface Kits	10776-01	4PC plug to DB25 plug (most IBM PC or compatible computers)	
	10776-02	4PC plug to DB9 plug (most IBM AT or compatible computers)	
Supplementary Hardware	E-100674051	Stand adapter	
	E-100675051	Privacy shield	

SERVICE AND SUPPORT Accessories and Documentation

Cleaning Kit	02746-01	VeriFone Cleaning Kit
Documentation	22900	PINpad 1000sE Certifications and Regulations
	22901	PINpad 1000sE Quick Installation Guide
	22903	PINpad 1000se Reference and Programmers Manual
	22906	PINpad 1000sE Stand Adapter Quick Installation Guide



Troubleshooting Guidelines

This chapter lists typical malfunctions that may occur while operating a PINpad 1000SE unit and the appropriate corrective action. If the problem persists even after performing the outlined guidelines or if the problem is not described, contact your local VeriFone representative for assistance.



The PINpad 1000SE unit uses a tamper-evident case. The PINpad 1000SE unit contains no user-serviceable parts. Do not, under any circumstance, attempt to disassemble the unit. Perform only those adjustments or repairs specified in this guide. For all other services, contact your local VeriFone service provider. Service conducted by parties other than authorized VeriFone representatives may void any warranty.

- **Display Panel** Check all the cable connections. 1 **Does Not Work** 2 Check the controller's AC outlet to be sure the outlet is supplying sufficient power. Substitute the controller's power pack with another power pack. 3 The controller's application program might not be loaded correctly. Download the application program and try again. 4 Run the display reliability test (option 5) as described in Section 3 in the PINpad 1000sE Reference and Programmers Manual (VPN - 22903). 5 If the problem persists, contact your local VeriFone representative. **Keypad Does** 1 Check the display panel. If there are no characters, or the wrong characters Not Respond are displayed, refer to Display Panel Does Not Work. 2 Run the keypad reliability test (Option 4) as described in Section 3 in the PINpad 1000sE Reference and Programmers Manual (VPN - 22903).
 - 3 If the problem persists, contact your local VeriFone representative.

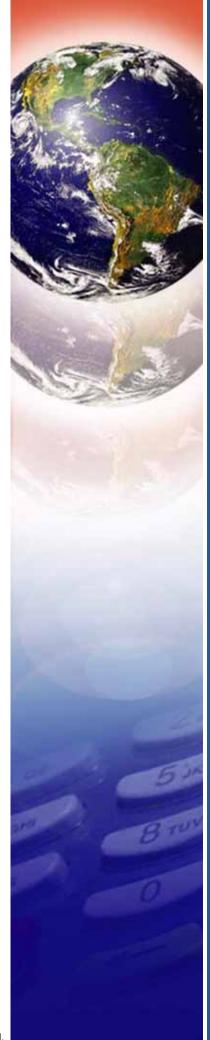


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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

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