



# DIGIPASS 855

## Multiple authentication methods (OTP/PKI) in one Personal Card Reader

**DIGIPASS 855 (DP 855) is a portable smart card reader that can generate one-time passwords (OTP), digital signatures and challenge-response based authentication codes.**

### APPLICATIONS

DP 855 is ideally suited for PKI/digital signature applications, secure PIN verification, corporate network access, strong authentication for internet banking, e-commerce, telephone banking, etc.

Various authentication functions can be performed in USB connected and unconnected modes.

#### OTP & Signature Authentication:

In unconnected mode, CAP (Europay-Mastercard-Visa Chip Authentication Program) can be combined with any customized application available for VASCO card readers.

In connected mode, the following security functions are supported: PIN entry, PIN change, signature and connected CAP.

DP 855 not only offers secure PIN entry facilities, but also "What You See Is What You Sign" functionality. Data to be signed is presented on the secure display prior to confirmation by the cardholder.



### PKI:

The reader leverages the inherent security of chip cards to store secrets for a secure computation (cryptographic calculations). Robust performance and high speed communication is ensured with a dedicated high performance processor.

Additional applications can be customized upon request

### SECURITY

The DP 855 uses the smart card for storing secrets and keys, which eliminates the potential security risk in the event of loss or theft. No secrets are stored inside the firmware of the reader. The PIN is entered directly on the reader and not on the computer keyboard. Therefore, the PIN is never available on the PC platform. The device initializes itself and becomes unique the moment a user inserts their smart card and enters their PIN. In connected mode, a smart card PIN change can be securely performed using the DP 855 keyboard.

The reader is tamper evident.

### EASY DEPLOYMENT, INSTALLATION AND USE

DP 855 is based on a CCID driver compliant with all popular operating systems such as Windows, Linux and Mac OS.

The applications used in connected mode can be securely and remotely downloaded into the reader. When connected to a PC, the device is USB powered.

Multiple languages are supported; the number of supported languages is dependent on the quantity and size of messages to be displayed. The behavior of the function and control keys can also be customized.

### A COST EFFECTIVE SOLUTION

The intrinsic security of the smart card is combined with the flexibility of a reader to maximize your investment. Additionally, DP 855 requires no extra personalization by the network owner and can be delivered very efficiently in volume. Security infrastructure costs are reduced due to the decreased number of helpdesk calls. DP 855 can help banks transition to strong authentication for retail banking cost effectively by leveraging their existing investment in EMV infrastructure.


**FEATURES**

Display	High contrast, 12 character, 2-line LCD (1 line 60x7 dot matrix line and 1 line of 7-segment characters)
Size	Compact size of 63 x 95 x 16 mm
Weight	62 g
Keypad	Tactile keypad with silicon rubber key printed with an epoxy layer. Resistant to over 100,000 rubbings. 10 numeric keys (0-9), 6 function and/or control keys.
Lifetime	5-year lifetime
Standards	Mastercard CAP (2004, 2007) VISA dynamic passcode authentication version 1.1 Banksys Unconnected reader specification (BKS M.010 version 1.3) German Sm@rt TAN Belgian eID Card EMV 2000 Level 1 and PC/SC 2.01 USB 2.0 full speed (12Mbps) ISO 7816 CCID
Logo	Logo can be printed on the reader. Color of the casing can also be customized.
Cable	1.5 meter, with USB type A connector
Operating systems	Windows 2000, Windows XP, Server 2003, SUSE Linux, MAC OS 10.3

**COMPLIANCE**

Storage temperature	-10° C to 50° C; 90% RH non-condensing	IEC 60068-2-78 (Damp heat) IEC 60068-2-1 (Cold)
Operating temperature	0° C to 45° C; 85 %RH non condensing	IEC 60068-2-78 (Damp heat) IEC 60068-2-1 (Cold)
Vibration	10 to 75 Hz; 10 m/s <sup>2</sup>	IEC 60068-2-6
Drop	1 meter	IEC 60068-2-32
Emission		EN 55022
Immunity	4 kV contact discharges, 8 kV air discharges, 3 V/m from 80 to 1000 MHz	EN 61000-4-2 EN 61000-4-3
Compliant with European directives	2004/108/EC (EMC directives) 2002/95/EC (RoHS directive) 2002/96/EC (WEEE directive)	
Tampering	Tamper evident	ISO 13491-1

**About VASCO**

VASCO designs, develops, markets and supports patented DIGIPASS®, DIGIPASS PLUS®, VACMAN®, IDENTIKEY® and aXs GUARD® authentication products for the financial world, remote access, e-business and e-commerce.

With tens of millions of products sold, VASCO has established itself as the world leader in Strong User Authentication for e-Banking and Enterprise Security for blue-chip corporations and governments worldwide.

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