

EBRAX
ATM SECURITY LLC



EBRAX ATM SECURITY

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INDEX

INTRODUCTION	2
ANTI-SHIMMING SOLUTION	3
<i>Figure 1 - Ebrax Anti-Shimming Device</i>	3
PUMP STATION SOLUTION	4
<i>Figure 2 - Ebrax PS Anti-Skimming Device</i>	4
COMPLETE SOLUTION	5
<i>Figure 3 - Ebrax M.A.S.S. Anti-Skimming Device</i>	5



INTRODUCTION

The evolution of Fraud faces us with a major challenge in protecting our Customers' transactions. That is and should always be our goal: to protect our Customers from fraud perpetrated at ATMs.

Today large number of ATMs are already equipped with Bezel protection against fake Bezels and other skimming devices (*undoubtedly with better and worse results*), but very few of them are able to detect, and of course stop **Deep Insertion Attacks -Shimming-**.

With the technology made available to perpetrate fraud, nowadays extremely tiny devices are inserted into the Card Reader and are undetectable by most protection systems.

That is the reason why we are introducing our Anti-Skimming family devices.

THE REAL SOLUTION TO SHIMMING & SKIMMING.

ANTI-SHIMMING SOLUTION

Ebrax Anti-Shimming is the most advanced technology available today to protect against shimming attacks. With an optical sensor that is installed inside the card reader and monitors the presence of any foreign object the card slot area, it focuses on detecting "Deep Insert Skimmers".

➤ **Reflective infrared optical solution.**

This makes the solution less sensible to environment light changes.

➤ **Fraud detection based on variation of reflection levels in four areas, it covers all the inner area of the card slot.**

➤ **Compatible with all versions of Ebrax Anti Skimming & other brands.**

A wide variation of outputs and signaling options makes it compatible with all systems.

➤ **Does not affect normal reader use.**

As any mechanical change in the card reader is not needed, the reading operation is unaffected.

➤ **Provides configurable alarm time before signaling an alert to the control unit.**

During normal operation, a customer card will be detected. To avoid false-alarms, a configurable extra timer delays alert signalization, allowing only long-time detected objects trigger an alarm.

➤ **Dip and motorized card readers supported.**

Adaptable to any card reader model.

➤ **Detects any type of material.**

Based on an optical technology, all kind of material are detected.

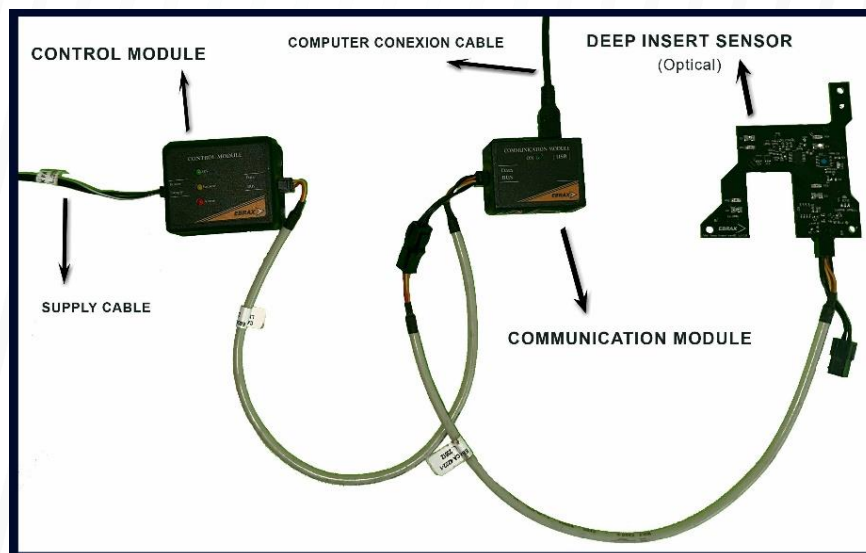


Figure 1 - Ebrax Anti-Shimming Device

This configuration is a solution against Shimming attacks and can be added to EBRAX and non EBRAX configurations and/or equipment.

WITH EBRAX ANTI-SHIMMING, SHIMMERS ARE NO LONGER A THREAT.

PUMP STATION SOLUTION

We would like to introduce a solution specifically prepared for PUMP STATIONS. We are talking about EBRAX PS Anti-Skimming Device.

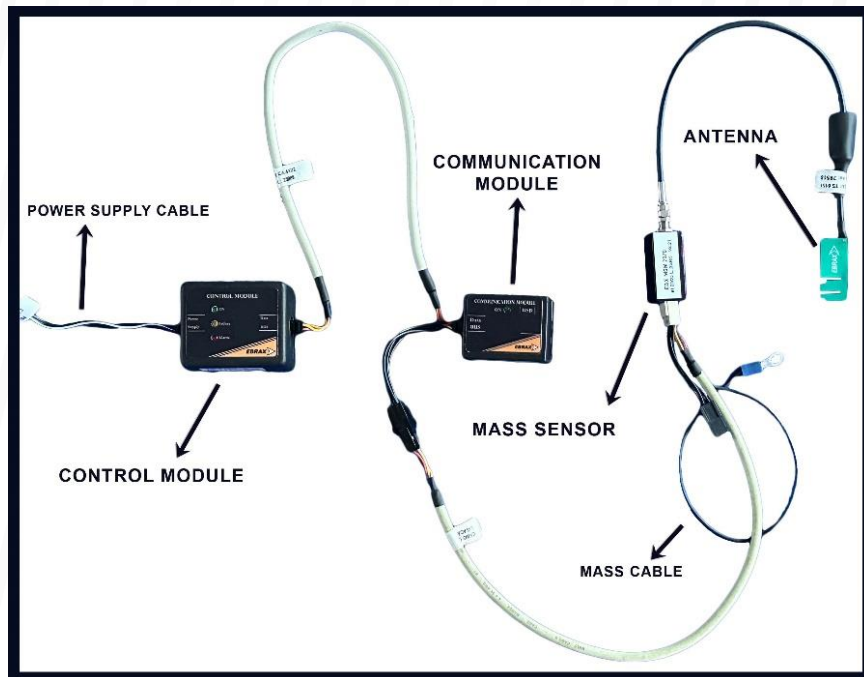


Figure 2 - Ebrax PS Anti-Skimming Device

An absolutely economical solution to protect **PUMP STATIONS** since it operates just with this configuration:

- **Power Supply**
- **Control Unit**
- **Communication Module**
- **Mass Sensor**
- **Antenna**

The Antenna is specifically designed for each particular case and this enables the greatest benefit in fraud detection.

COMPLETE SOLUTION

Finally the complete solution protects against both Skimming and Shimming attacks. Any Atm threat against your customers' information will be detected in order to take appropriate action. The **EBRAX ANTI-SKIMMING M.A.S.S. Kit** neutralizes any attempt of attack because when it identifies a real threat, it alarms and produces an electromagnetic field that makes impossible any reading of the card information and turns off the screen to prevent customers from inserting their card.

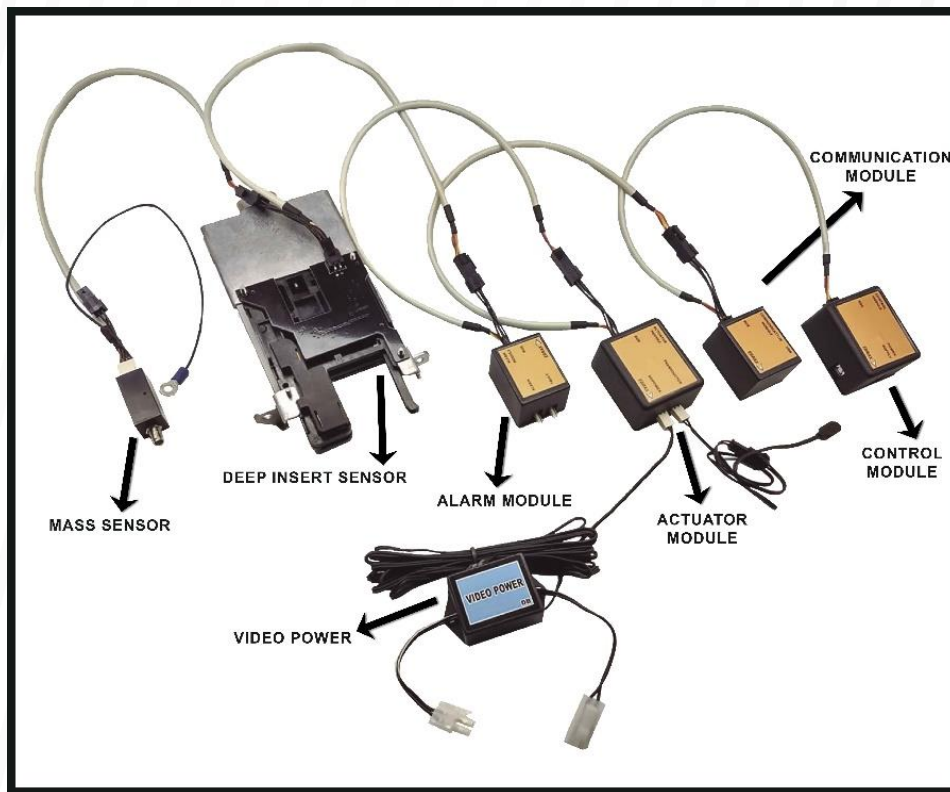


Figure 3 - Ebrax M.A.S.S. Anti-Skimming Device

The most security equipment developed to be installed in ATMs protecting against attempts of fraud by cloning of magnetic cards and steal of passwords from Clients. In machines equipped with **M.A.S.S.**, the fraud is detected in Real Time. Upon detection, **M.A.S.S.** actions include send an Alert and/or Alarm signal to the Monitoring Center, sound the alarm of the equipment, if necessary, emission of a jamming signal and disabling critical functions of the ATM, hindering the operation of the fraudulent (skimming) device.

Conventional anti-skimming solutions only monitors around the Bezel, hence preventing only a part of current frauds. **M.A.S.S.** however, is capable of detecting both the standard overlay skimmers and the deep insert ones.

EBRAX M.A.S.S. ANTI-SKIMMING KIT is the ultimate solution for both Skimming and Shimming attacks.

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