



Features of Protectomatic ID Tagger

- * Protection and entrance control of key areas with high demands in security
- * Entrance control of areas where the long range reader have importance
- * Tagging of cars, boats and aircrafts for long range reading applications (many hundred meters)
- * Automatic control of who is where in a large area (personal logistics and security)
- * Tagging attractive objects from getting stolen or moved
- * Interface to other units in the detection area (Smoke detectors, alarm and house automation utilities) .

The Protectomatic ID Tagger is a part of the complete total security solution handling the Identity card reader and personal ID tags used for all authorized staff and persons in the area.

The ID card is a two way unit which can be read remotely but also transmit information to the card readers by the card itself. This gives a far more flexible system than ordinary RFID systems used every where today.

The range is 200-300 meter with pin antennas and far more with hi gain directional antennas. The ID tag can have alarm button interface and some models have a voice interface so the carrier can talk through the ID card to the net work. This makes the Protectomatic ID tagger system very suitable for guard and patrol applications.

We have a very unique optional feature for demanding applications where we can confirm if the card is carried by the authorized owner and no one else. This can be done at long range by a special feature integrated into special versions of the card/ system.

The card reader have ethernet interface to the LAN net work with an own IP address. It can read all cards in the area. By setting the sensitivity and using several models of the anthennas we can control the sensing area and range too a high degree. One card reader can read many different ID tags in the area and transmit all information all over the net work. of operation.

ID tagger systems are designed to fulfil the fail safe thinking and do give alarms when system is out of operation. ID tagger system is made in Sweden in the Laseroptonix net work group. Key knowledge is available in the ISO 9002 production chain.

Many of our productr are protected by patents and patent applications

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Technical specifications Protectomatic card reader

Interface	Ethernet / Wire less LAN / Internet interface Optional RS 232 / Telephone connection / GSM Phone
ID Cards	All series of Protectomatic long range ID cards. No other cards can be interfaced as we have a differentn technology.
Output	ID cards numbers active in the area Alarms from any ID card in the area Logged datas and collected from ID cards when available
Input voltage	230 Volt AC and optional battery back up system
Power consumption	Max 10 W over wall adapter or other power supply
Ambient temperature	- 10 to + 40 degree C Optional - 40 to + 70 degree C
Encapsulation	IP 65 plastic cabinet with hidden anthennas
Anthena system	Hidden omnidirectional anthenna Long range narrow field anthennas Long range parabolic anthennas
RF transmission	Coded + encrypted + frequency jumping. High level of security and protection against kidnapping card numbers. Alarm system for RF interference problems or disturbances.
Frequency band	Somewhere between 2 and 3 GHz or 425-450 MHz
Approvals	CE Marked, Approved by PTS for the RF system to EU norms and standards.
Production	ISO 9002 standard certified production

Technical specifications ID tag

Encapsulation	Black plastic , waterproof IP 54 level
Service interval	1 year
Charging interval	4-8 weeks depending on traffic and how it is used
Range	200-300 meter with standard anthena 300-700 meter with narrow field anthennas Over 700 meter with parabolic anthennas
Ambient temperature	- 10 to + 50 degree C
Dimensions	35x75x10 mm + key holder
Approvals	CE Marked, Approved by PTS for the RF system to EU norms and standards.
Production	ISO 9002 standard certified production

About Protectomatic ID Tagger systems

The Protectomatic ID tagging system is a part of the Protectomatic TSS concept.. Originally it was designed as a part of this system but it has showed to bee a unique concept in ID cards and entrance systems. The long range and lower prices makes it very attractive for all entrance applications. The capability of 2 way communications makes it safer and admits a higher degree of personal safety. The coming unique new capability of controlling that the owner carry the card and use it opens the door for a real step in security improvement.

Options for ID tagger system

PC computer with software	On demand we offer the PC with software and operators interface. This is based on a standard package with the needed modifications for the specific application and customer.
ID Confirmation system	By special arrangements we can make the card to confirm that it is carried by the authorized carrier and none else This solution is not complex and high costly and very easy to handle. If someone take a card this will notice that the carrier is not the authorized owner of the card.
Longer range option	High power card option giving longer ranges than standard cards. It do add volume and weight.
Movement control	Special feature telling if a tagged object is moving around or is stolen.
W-LAN / Bluetooth,/GSM	Optional interfaces with wireless solutions for mobile or wireless communication
I/O Card interface	Making it possible to read on and off signals by the ID card
Analogue interface	Making the ID card to read analogue and proportional signals.
PAL / Camera interface	Making the ID card capable of reading a camera signal and transmitting it over the net work.
Bio sense control	Special unit checking what the carriers is doing and if he get sick or have problems in health. Alarm when there is a problem. Pulse, breath and standing up controller.
Long range antennas	Hi gain anthennas for longer range. These are active or directional anthennas like parabolas etc.

Protectomatic Interface

ID tagger is a part of the Protectomatic TSS system (Total Security Solution) Here we use a mix of cameras and detectors in combination with ID tagger to have a total control of all movements and persons in a determined area. This is very unique and offers a higher level to security than any other systems available.

Protectomatic can handle a large flow of persons and pick up the persons with no valid ID cards separated from staff with correct ID cards. This solution is very powerful and flexible but still not complex in operation.

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