guardiX Guard Tour System
with Bluetooth™ and RFID Technology

Principles of Operation

guardiX is the latest generation of RFID (radio frequency identification) powerful guard tour system available for applications in guard patrolling, site inspections, surveillance patrols, maintenance planning and reporting as well as quality control checks.

Operation and use of the *guardiX* guard tour system is very simple and user-friendly with very minimal training. There are no complicated functions to operate and no buttons to press.

Collection of data is equally easy and convenient. There is no direct contact when reading the checkpoints to record the data. Audible and optical feedback with clear colour-coded LED lights gives immediate indication to the user of successful reading. Further, no recharging of battery is required.

Data transfer is simple. By simply using the latest Bluetooth™ technology, which is cable-free and wireless, data is transferred to the PC.

1.   Product Innovation

deister electronic GmbH, the European RFID market leader who has pioneered the world's first electronic guard tour system has always been in the forefront in its technology development to develop this new generation *guardiX*. With its relentless R&D efforts and constant feedback from the industry, the *guardiX* was specially designed to meet today's ever-increasing high requirements of a highly effective, reliable and top performance guard tour system. The guardiX is exclusively distributed by Coselec Pte Ltd in the Asia Pacific region.

The innovation of the guardiX lies in the technology engineered into the features and functions and the special product design that comes with it. It rides on the latest Bluetooth™ technology for cable-free and wireless data transfer to the personal computers or computer notebook. In addition, the data collected during patrols or site inspections is automatically and contactlessly collected using the proven RFID technology.

2.   Design

The **guardiX** guard tour system is designed with the winning combination of high-end technology, quality engineering and distinctive design. Its design is sleek, sturdy and compact, specially innovated for the manned guarding industry. In addition to its sleek design, the **guardiX** is engineered to be highly durable, shock-resistant, tamper-proof and water resistant with IP65 protection.

The KSC30 contactless checkpoint stores information in a passive microchip which does not require external power. KSC30 has a unique code which cannot be copied or manipulated. Mounting of KSC30 is versatile that it can be painted over or concealed. For recording of incidents/events (e.g. faulty lights, door not closed, etc.) during patrol, an Event Card can be used to eliminate manual recording.

3.   Unique Features of the guardiX

3.1   Ergonomic design
Special efforts were put into the ergonomic design of the **guardiX** data collector for user's easy handling. The collector is insulated with a special materials on surface made of thermoplastic elastomer offering the user the comfort of secure grip and protection against moisture.

3.2   Heavy-duty Durability
The **guardix** comes with an extremely robust metal housing with rubber encapsulation. Its metal and rubber construction is specially designed for heavy use in the most harsh environments and also to withstand rough handling and accidental damage that most other data collectors cannot handle.

3.2   Bluetooth™ Technology
The **guardiX** is designed with an in-built Bluetooth™ technology capability for wireless data transfer and contactless communication with the PC. The data is transferred via this technology eliminating any unnecessary downloading unit or cables.
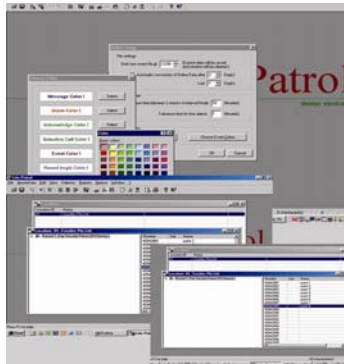
3.3   Automatic and Contactless Data Collection
The **guardiX** offers automatic and contactless reading of checkpoints. There are no buttons to push, making data collection a very easy and highly user-friendly operation.

3.4   Audible and Optical Sensors and Signals
Audible and optical feedback provides immediate indication to user of a successful reading. Only validated readings are stored for evaluation.

3.5   Powerful Management Software and Highly Encrypted Data

In addition to its highly engineered hardware, the **guardiX s**ystem operates on a very powerful management software.   The software offers a very effective management tool in generating various useful and comprehensive reports for evaluation. Simple and yet powerful, the software is capable of generating reports and the data is highly encrypted to prevent data manipulation from unauthorized personnel.

3.6   Future Expansion
Further innovation is underway to design the **guardiX** system for on-line real-time information by GSM/GPRS for data transfer via PDA or mobile phone to the central monitoring station.

4.   Benefits of *guardiX* to Users

4.1   Cost-Effective
As the **guardiX** rides on the Bluetooth™ technology for data transfer, it eiliminates the need for additional hardwares like data transfer unit, cables, battery charger or other peripherals necessary for the data transfer. This saves cost tremendously.

The **guardiX** is powered by an economical user-replaceable 1 lithium battery which is easily available and offers user a long battery lifespan of about 45,000 readings. There is no down-time as there is no need to recharge the battery.

4.2   Zero Maintenance
With its highly durable housing construction and design with no buttons and contact, the **guardiX** is practically indestructible with zero maintenance.

4.3   Data Integrity
The management software produces highly encrypted data, making it safe from manipulation of data and ensuring its integrity and accuracy for management reports.