emerald™
Intelligent Access Terminal

CEM SYSTEMS
From Tyco Security Products

emerald™

A world of possibilities at your fingertips

emerald™ is a multi functional intelligent access terminal that is revolutionising the security industry.

With its sleek design and state of the art LCD touch screen, emerald™ offers card reader and controller functionality, fully integrated Voice over IP (VoIP) intercom and a range of remote server based applications, all in one single, powerful terminal. Designed for use with the CEM AC2000 security management system, emerald™ not only controls access to restricted areas but also opens up a world of infinite possibilities by bringing CEM AC2000 intelligence directly to the edge.

Key features

- Industry's most multifunctional access terminal
- User-friendly 4.3" capacitive LCD touch screen
- Intuitive GUI enhancing user experience at the door
- Ethernet card reader & controller in one
- PIR motion detection
- Voice over IP (VoIP) Intercom functionality
- Support for a range of smart card technologies
- Ability to run 'Remote Applications' from AC2000 central server directly at the door
- Scramble keypad option for Personal Identification Number (PIN)
- Offline database for 250,000 cardholder records
- Multiple door modes
- Power over Ethernet technology
- Easy to install

emerald™

Intelligent Touch Terminal

emerald™ has an innovative, sophisticated design. It has a touch sensitive, scrollable 4.3" capacitive custom LCD screen. With hardened glass and an anti-glare coating, it is durable enough to be used both indoors and outdoors and is IP 65 rated.

With a built-in mini PIR sensor, the terminal also features energy saving motion detection. This enables the LCD screen to automatically light up upon an approaching person.

With an easy to read and intuitive graphical user interface (GUI), emerald™ displays a wide range of predefined animated messages to cardholders depending on their access privileges e.g. Wrong Door, Lost/Stolen Card, Expiring Card and Access Granted. Featuring an optional Scramble keypad for Personal Identification Number (PIN) security, emerald™ also acts as an information point by displaying general company information and audible prompts to enhance user experience at the door.

IP Reader & Controller

emerald™ extends the traditional capabilities of an access control reader. With advanced IP reader and controller functionality in one device, emerald™ communicates directly to the CEM AC2000 server using Ethernet connectivity. This removes the need for an additional controller in the security system design.

With an offline database, emerald™ can store up to 250,000 cardholder records and 50,000 card transactions in offline mode. This enables 24/7 security, even in the event of communication being temporarily lost with the AC2000 server.

With multiple operational door modes, emerald™ can be used in a variety of applications such as Control Post, Interlock mode, Multi-Swipe mode and many more. emerald™ also supports a range of highly secure industry standard smart card technologies, such as 13.56 MHz MiFare (CSN) and DESFire (CSN) smart cards.

Power over Ethernet

emerald™ has onboard Power over Ethernet (PoE) technology as standard allowing the terminal to be powered using a single Cat 5e cable at the door.

Intercom functionality

emerald™ features a fully integrated Voice over IP (VoIP) intercom (TS200/TS300 versions only). This provides two way point-to-point communication utilising built-in microphone and speaker and enables users to communicate directly with security personnel when assistance is required. Access to the intercom can be restricted by card holders and can be used as an additional layer of authentication in high security areas.

Remote Applications - Intelligence at the door

One of emerald's unique features is the ability to run applications at the door that are remotely hosted on the AC2000 database server (TS300 version only). These server based Remote Applications are secure web pages accessed from emerald™ via a secure web portal.

Available to users with specific card holder status, these leading edge applications display real time information and statistics such as card status, scheduled visitors, top system alarms, most recent alarms and most recent card swipes on the terminal. Applications available include 'First and Last swipes' that can be used for time and attendance purposes, 'Your Card Details' for individuals to determine

access levels and card expiry date and 'Change PIN' that allows users to proactively change their own PIN without contacting the system operator. Another key application is 'Your Visits' which allows reception and individuals to quickly review scheduled visits.

An 'Info' application also enables administrators to post general company information on the emerald™ terminal, such as health & safety information.

A range of maintenance applications are also available. These include 'Recent Alarms', 'Devices with most Alarms' and 'Device Settings' which allow engineers to locally diagnose devices and change network information remotely.

Customised Remote Application Groups

CEM is the first to market with the introduction of customised 'Remote Application Groups'. Individual cardholders will uniquely only have access to remote applications, depending on their 'Application Group' assigned. For example Administration group, Engineer group and General Company group.

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emerald™ is available in three versions:

TS100 – Intelligent Access Terminal
TS200 – Intelligent Access Terminal with VoIP intercom
TS300 – Intelligent Access Terminal with VoIP intercom
            & Remote Applications

(Please see datasheets for more information)

Experience emerald™ today!
www.cemsys.com/emerald

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