

emerald TS200f Intelligent Fingerprint Terminal Fully Integrated Biometric Solution

Features that make a difference:

- Multifunctional access terminal with integrated biometrics
- Controller, advanced IP card reader and single biometric solution all in one that meets requirements for three stage identity authentication (card, PIN, and biometric verification)
- Fast card and fingerprint verification, uses 1:1 fingerprint match at the door
- Secure storage of fingerprints on the central AC2000 server and on the emerald internal database
- Fingerprint module gives a high resolution scan with FIPS201 approved biometric algorithm
- Durable enough for indoor or outdoor usage with an IK06 vandal resistance rating, and IP65 dust and water resistant rating
- User-friendly 4.3" capacitive LCD touch screen
- Intuitive Graphical User Interface enhancing user experience at the door
- Scramble keypad option for Personal Identification Number (PIN)
- Fully integrated VoIP intercom functionality
- Available with onboard PoE+ technology to power the terminal and additional door furniture
- PIR motion detection
- Remote upload of new firmware directly to the reader with on-screen indication
- Maintenance Information / Security
 Intelligence Point
- Ability to display live video at the workstation on intercom request, when interfaced with CCTV system (available with AC2000 v6.7 & upwards)
- Ability to display advertising/ information announcements and personal messages

emerald TS200f is a multifunctional touch screen access terminal with fully integrated biometric. Used in conjunction with CEM AC2000 security management system, the emerald TS200f uniquely provides users with built in Voice over IP (VoIP) intercom functionality and a wide range of functions, all in one powerful device that controls access to restricted areas where an additional biometric layer of security is required.

Featuring a controller, advanced IP card reader and single biometric solution all in one, the emerald TS200f meets requirements for three stage identity authentication (card, PIN, and biometric verification) using one device. The emerald TS200f has a bright 4.3" graphical LCD touch screen to display predefined messages and icons to cardholders depending on access privileges. Its built in mini PIR sensor provides energy saving motion detection and a multi-coloured LED provides users with a visual indication of access status. With hardened glass and an antiglare coating, the emerald TS200f is durable for indoor and outdoor use.

Off-Line Card Validation

The emerald TS200f has a large internal database that enables it to operate in off-line mode. In off-line mode the terminal can hold up to 123,000 card holder records with 2 fingerprint templates for each card holder.

VoIP Intercom Functionality

The emerald TS200f terminal features a built-in microphone and speaker to support fully integrated access control and intercom functionality. This allows for two-way conversation between the user at the terminal and an AC2000 workstation operator, as well as remote door control. When interfaced with a CCTV system, the operator can also see who they are talking to through the live video feed (AC2000 v6.7 and upwards).

PIN & Fingerprint

This special emerald enhancement allows using emerald TS200f terminal without a card, where the user must enter their special designated 6-digit PIN number followed by a fingerprint verification. Where necessary, this removes the need for a physical card while maintaining a high level of security at the door.

Fully integrated biometrics & access control solution

The emerald TS200f features a controller, advanced IP card reader and fingerprint module all in one device.

Single process & network solution

Fingerprint enrolment is captured and stored via the AC2000 access control system at the same time as cardholder enrolment. This offers clients a single solution and eradicates the requirement to purchase a separate biometric reader and software application to link to the access control system.

Power over Ethernet Plus

The emerald TS200f is available with onboard Power over Ethernet Plus (PoE+) technology allowing the terminal and additional door furniture* to be powered using a single Cat 5e/6 cable at the door.

Multi Date Check

As an additional safety and security layer applied on top of system card validity checks, this mode allows the emerald to check the validity of any additional criteria such as training certificates or contracts that might be required at the site. System administrators can easily configure Multi Date Check using the dedicated intuitive AC2000 Web interface and run detailed reports on the configured Multi Date Check criteria and expiry dates, to ensure that personnel's certificates and permissions stay up to date. Whether it's applied for an individual cardholder or company-wide, additional date checks will take place after a valid transaction and a detailed result message will be displayed on emerald screen. This feature is only available with AC2000 v7.0 and above.

Time & Attendance

In T&A mode, the emerald allows users to select either the IN or OUT transaction on a single terminal, before swiping their cards. Depending on the selection, the emerald will allocate valid transactions against either the IN or OUT swipe. System administrators can then easily report on the T&A activity using AC2000 Time and Attendance module or system reports. For highly secure locations, Time & Attendance mode can work in conjunction with Fingerprint verification and other modes such as PIN or Image on Swipe. (T&A is a dedicated door mode. emerald will not control door access when in T&A mode.)

PIN as Card

PIN as Card is a special emerald feature, offering cardless verification using a unique 6 digit PIN to verify transactions. Where necessary, this removes the need for a physical card while maintaining security at the door.

Emerald Link

Emerald link allows operators to activate passenger mode at both sides of the door while providing visual feedback of the remaining passenger time. Emerald Link is the deployment of two emeralds back to back in passenger mode to control a single door. The emeralds communicate with each other over Ethernet using secure 128-bit AES encryption. Alarms generated on either emerald are visually displayed on both sides of the door.

Requirements

- AC2000 Airport v7.0 and upwards
- AC2000 v7.0 and upwards
- AC2000 Lite v7.0 and upwards
- CEM S610f Validation Reader
- RTC Ethernet Reader Controller



Specification	Out the hash a second and a second
Physical Size	Switchable wet outputs Rating
Weight	External: Up to 30Vdc @ 2A (60W)
Housing Flame retardant polycarbonate, with UV stabilisation. RoHS compliant, and	Memory 128 MB RAM, 256MB NAND Flash
PBE/ PBDE free flame retardant system LCD Capacitive, light touch, 4.3 ^{or} Diagonal, 480 * 272 square pixel 16 bit colour	Expansion Micro SD slot for optional memory expansion. Micro SD card fitted.
LED Indicator High Intensity multi-colour LED indicator	RTC Battery Backup 3.0V rechargeable Lithium-ion
ColourBlack Voltage	Off-line Database
PoE Version	Cardholders
compliant source	Transactions
Current	Card technologies MIFARE (CSN), DESFire (CSN),
Current available to	CEM DESFire 3DES, CEM DESFire AES,
power door furniture None	iCLASS, iCLASS SE, PicoPass
PoE+ Version	Communication Interface
Current	To Exit Reader RS485 (CEM S610 Exit Reader/
Current available to	CEM S700 Exit Reader)
	Wiegand (3rd party read heads)
Current available to power door furniture 650mA @12V*	Wiegand (3rd party read heads) Cable Connection M3 Screw terminals
Current available to power door furniture 650mA @12V* Environmental	Wiegand (3rd party read heads) Cable Connection M3 Screw terminals To System Host 10/100 Base-T TCP/IP using CAT5e
Current available to power door furniture 650mA @12V* Environmental IP Rating IP65	Wiegand (3rd party read heads) Cable Connection M3 Screw terminals To System Host 10/100 Base-T TCP/IP using CAT5e Unshielded twisted pair cable
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as ice, show etc. *** Equal Error Rate. Manufacturer's data related to fingerprint match only. EER is dependent on databases

Ordering Information

Product Code	Description
TSR/200/115	emerald TS200f Intelligent Fingerprint Terminal (MIFARE CSN/DESFire CSN/CEM DESFire)
TSR/200/118	emerald TS200f Intelligent Fingerprint Terminal (iCLASS / iCLASS SE)

To order contact cem.sales@tycoint.com or call +44(0) 2890 456 767

Related Products





AC2000 AC2000 Airport AC2000 Lite

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Approvals



FCC approval pending

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