









Quick Guide to CEM Readers

Last updated 9th August 2011
CEM/SAM/121 v2.4
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Advanced CEM Manufactured Readers				
Reader	Manufacturer	Description	Key Features	CEM Product Code
InfoProx™ IPO200/210 	CEM <i>webEntry & AC2000 SE/AE</i>	Advanced Proximity/Smartcard Reader with intelligent onboard database	<ul style="list-style-type: none"> Available in both 125 kHz Proximity (IPO200) and MiFare smart card technology (IPO210) options In-built database for off-line card validation Compact, three LED indicators and Backlit LCD display and Keypad for added PIN security 	Proximity option: SPASS-IPO-200-B MiFare option: SPASS-IPO-210-B
InfoProx™ Lite IPL200/210 	CEM <i>webEntry & AC2000 SE</i>	Advanced, Low cost Proximity/Smartcard Reader without onboard database	<ul style="list-style-type: none"> Available in both 125 kHz Proximity (IPL200) and MiFare smart card technology (IPL210) options 4 inputs to monitor alarms such as door held/forced conditions Compact, three LED indicators, Backlit LCD display and Keypad for added PIN security 	Proximity option: SPASS-IPL-200-B MiFare option: SPASS-IPL-210-B
InfoProx™ Exit IPX200/210 	CEM <i>webEntry & AC2000 SE/AE</i>	Advanced Exit Proximity/Smartcard Reader	<ul style="list-style-type: none"> Available in both 125 kHz Proximity (IPX200) and MiFare smart card technology (IPX210) options Exit reader used with range of InfoProx™ and EtherProx™ card readers Compact, three LED indicators, Backlit LCD display and Keypad for added PIN security 	Proximity option: SPASS-IPX-200-B MiFare option: SPASS-IPX-210-B
EtherProx™ EPO200/210 	CEM <i>AC2000 System Range only</i>	Advanced Ethernet based Proximity/Smartcard Reader with intelligent onboard database	<ul style="list-style-type: none"> Available in both 125 kHz Proximity (EPO200) and MiFare smart card technology (EPO210) options World's smallest Ethernet onboard card reader Incorporates the functions of an intelligent card reader and a control panel Local and remote configuration of numerous reader settings 	Proximity option: SPASS-EPO-200-B MiFare option: SPASS-EPO-210-B
sPass Reader 	CEM <i>AC2000 SE & AC2000 Lite</i>	CEM contactless smart card reader with powerful 3DES (Triple DES) encryption Available for use with CEM eDCM 350 controller	<ul style="list-style-type: none"> Supports CEM DESFire technology Available with or without keypad Designed for use with the CEM eDCM 350 controller Secure RS485 serial communications between reader & eDCM 350 controller Optical tamper detect sensor 3 LED's Green, Amber and Red and on-board sounder 	sPass DESFire reader with keypad: RDR/D10/101 sPass DESFire reader no keypad: RDR/D10/100

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S610s 	CEM webEntry & AC2000 SE/AE	Multi-technology Intelligent Serial card reader	<ul style="list-style-type: none"> Available with reading support for 125 kHz HID Proximity, 13.56 MHz MiFare & PicoPass smartcard and a multi-technology option to support MiFare & Proximity. Internal database stores up to 50,000 transactions in offline mode Integrates biometric devices with existing access control systems Keypad for PIN security & LCD Display for swipe messages <i>Reader messages configurable</i> IP rated 66 enclosure 4 Analogue inputs – used to monitor door and alarm condition 	125 KHz Proximity: RDR/611/101 13.56 MHz MiFare: RDR/611/105 Prox & MiFare: RDR/611/104 PicoPass: RDR/611/106 External Read Head: RDR/611/109
S610e 	CEM AC2000 System range only	Multi-technology Intelligent IP card reader Industry's most advanced card reader	<ul style="list-style-type: none"> Onboard Ethernet connection, communicates directly to host server Available with reading support for 125 kHz HID Proximity, 13.56 MHz MiFare, iClass, and PicoPass smartcard and a multi-technology option to support MiFare & Proximity. Internal database stores up to 50,000 transactions in offline mode Integrates biometric devices with existing access control systems Keypad for PIN security & LCD Display for swipe messages <i>Reader messages configurable</i> IP rated 66 enclosure 	125 KHz Proximity: RDR/610/101 13.56 MHz MiFare: RDR/610/105 Prox & MiFare: RDR/610/104 HID iClass RDR/610/108 PicoPass: RDR/610/106 External Read Head: RDR/610/109
S610f 	CEM AC2000 SE system only	Advanced Intelligent IP card & Biometric reader Controller, Card Reader & Fingerprint solution in one! Industry's most advanced fully integrated access control & fingerprint card reader	<ul style="list-style-type: none"> Single solution for both access control and biometric enrolment and distribution – no longer a requirement to have a separate access control and biometric network! Onboard Ethernet connection, communicates directly to host server Ethernet validation, giving fast transfer of biometric data Available with reading support for 125 kHz HID Proximity, 13.56 MHz MiFare & iClass SmartCards Internal database stores up to 123,000 fingerprint templates online and up to 8,000 transactions in offline mode Keypad for PIN security & LCD Display for swipe messages <i>Reader messages configurable</i> IP rated 30 enclosure (indoor use) 	125 KHz Proximity: RDR/615/101 13.56 MHz MiFare: RDR/615/105 13.56 MHz iClass RDR/615/108

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Reader	Manufacturer	Description	Key Features	CEM Product Code
S3020 Portable Reader 	CEM AC2000 System range	<i>Intelligent hand held Portable Card Reader</i>	<ul style="list-style-type: none"> • Biometric sensor features the industry leading Suprema series fingerprint module • Hand size, lightweight and robust for remote or random checks • Large memory capacity, up to 200,000 card IDs • Internal capacity for more than 8,000 transaction events • Full Colour TFT Touchscreen display • Proximity, MiFare (also supports DESFire CSN 32Bit), PicoPass and iClass options • WiFi connectivity to Host 	Proximity option: RDR/302/001 MiFare option: RDR/302/005 PicoPass option: RDR/302/006 iClass option: RDR/302/008
S3020f Portable Fingerprint Reader 	CEM AC2000 SE & Lite	<i>Intelligent hand held Portable Card and Biometric Reader</i>	<ul style="list-style-type: none"> • Hand size, lightweight and robust for remote or random checks • Card & Biometric verification in one portable device • Wireless encrypted TCP/IP connection to the AC2000 System. • MiFare CSN (and DESFire CSN 32Bit), PicoPass™, and HID iClass versions available • Large memory capacity, holding up to 100,000 card ID's • Provides cardholders with graphical and audio responses to a card swipe and/ or fingerprint. Also shows the current reader operating mode. • Onboard memory to store details for up to 8,000 transactions. • Fully integrated with AC2000 SE/Lite system - fingerprint templates enrolled on the CEM AC2000 enrolment station and saved on the access control server, as opposed to a smart card. 	HID iClass option: RDR/302/F08 13.56Mhz MIFARE option: (also supports DESFire CSN 32Bit) RDR/302/F05 PicoPass option: RDR/302/F06

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<p>S3030 Portable Reader</p> 	<p><i>AC2000 SE v6.3 and up</i></p>	<p><i>Intelligent hand held Portable Card Reader</i></p>	<ul style="list-style-type: none"> • Hand size, lightweight and robust for remote or random checks • Large memory capacity, up to 200,000 card IDs • Internal capacity for more than 8,000 transaction events • Full Colour TFT Touchscreen display • Ability to display cardholder photographs for biometric identification • Proximity, MiFare (also supports DESFire CSN 32Bit), PicoPass and iClass options • WiFi connectivity to Host • Roaming across pre-defined zones • Mustering at safe areas with muster count and mini report • Occupancy for head count in a defined area 	<p>Proximity option: RDR/302/301</p> <p>13.56MHz MiFare option: (also supports DESFire CSN 32Bit) RDR/302/305</p> <p>HID iClass option: RDR/302/308</p> <p>PicoPass option: RDR/302/306</p>
<p>S3030f Portable Fingerprint Reader</p> 	<p><i>AC2000 SE v6.3 and up</i></p>	<p><i>Intelligent hand held Portable Card and Biometric Reader</i></p>	<ul style="list-style-type: none"> • Hand size, lightweight and robust for remote or random checks • Card & Biometric verification in one portable device • Wireless encrypted TCP/IP connection to the AC2000 System. • MiFare CSN (and DESFire CSN 32Bit), PicoPass™, and HID iClass versions available • Large memory capacity, holding up to 200,000 card ID's • Provides cardholders with graphical and audio responses to a card swipe and/ or fingerprint. Also shows the current reader operating mode. • Onboard memory to store details for up to 8,000 transactions. • Fully integrated with AC2000 SE system - fingerprint templates enrolled on the CEM AC2000 enrolment station and saved on the access control server, as opposed to a smart card. • Roaming across pre-defined zones • Mustering at safe areas with muster count and mini report • Occupancy for head count in a defined area 	<p>13.56MHz MiFare option: (also supports DESFire CSN 32Bit) RDR/302/F05</p> <p>HID iClass option: RDR/302/F08</p> <p>PicoPass option: RDR/302/F06</p>

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Two Door Controllers & Read Heads				
sDCM300 	CEM <i>AC2000 System range only</i>	<i>Intelligent two-door Control Module that interfaces with 3rd party read heads</i>	<u>Low cost, intelligent two door controller</u> <ul style="list-style-type: none"> • Interfaces 2 non-CEM read heads to CEM host Controller • Reader communications via standard Weigand or Mag Stripe interfaces • On-board database for off-line card validation. • RS485 to host controller • <i>For a complete list of read heads supported contact CEM Systems.</i> 	DCM/310/101 (power supply & enclosure) DCM/310/004 (Board only)
eDCM300 	CEM <i>AC2000 System range only</i>	<i>Intelligent two-door IP Control Module that interfaces with 3rd party read heads</i>	<u>Low cost, intelligent two door IP controller</u> <ul style="list-style-type: none"> • Interfaces 2 non-CEM read heads to CEM host Controller • Reader communications via standard Weigand or Mag Stripe interfaces • On-board database for off-line card validation. • Ethernet onboard for TCP/IP connection to host system. • <i>For a complete list of read heads supported contact CEM Systems.</i> 	DCM/300/101 (power supply & enclosure) DCM/300/004 (Board only)
eDCM 350 	CEM <i>AC2000 System range only</i>	<i>Intelligent two-door IP controller for use with CEM sPass readers</i>	<ul style="list-style-type: none"> • Interfaces two CEM sPass readers to controller • Features RS485 encrypted communications • On-board database for off-line card validation • Ethernet onboard for TCP/IP connection to host system • <i>For a complete list of read heads supported contact CEM Systems.</i> 	DCM/350/101 eDCM 350 (Includes enclosure & power supply/battery charger) DCM/350/004 eDCM 350 (Board Only)









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sDCM 350 	CEM AC2000 System range only	Intelligent two-door serial controller for use with CEM sPass readers	<ul style="list-style-type: none"> • Interfaces two CEM sPass readers to controller • Features RS485 encrypted communications • On-board database for off-line card validation • Communicates with the AC2000 host system via RS485 communications to an S9032/64 serial controller For a complete list of read heads supported contact CEM Systems.	DCM/351/101 sDCM 350 (Includes enclosure & power supply/battery charger) DCM//351/004 sDCM 350 (Board Only)
Kantech ioProx™ P225W26 	KANTECH	Proximity Reader	<ul style="list-style-type: none"> • Read range up to 16.5cm • P225 ioProx™ proximity reader • 26 Bit Wiegand <p>More information: http://www.kantech.com/products/rkc_ioprox.aspx#MoreResources</p>	HDS/046/225
Kantech ioProx™ P225KPW26 	KANTECH	Proximity Reader with Keypad	<ul style="list-style-type: none"> • Read range up to 16.5cm • P225KP ioProx™ proximity reader with keypad • 26 Bit Wiegand • High endurance Braille Keypad <p>More information: http://www.kantech.com/products/rkc_ioprox.aspx#MoreResources</p>	HDS/046/22K
HID ProxPoint® Plus 	HID	HID ProxPoint® Plus60005B Reader	<ul style="list-style-type: none"> • Reads HID cards and keyfobs • ProxPoint® proximity card reader ideal for indoor and outdoor mounting • Read range up to 7.6cm <p>More information: http://www.hidcorp.com/pdfs/products/proxpointplus.pdf</p>	HDS/041/003








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HID MiniProx® 		HID MiniProx 5365 Proximity Reader	<ul style="list-style-type: none"> MiniProx® proximity card reader ideal for indoor and outdoor mounting Read range up to 14cm Reads HID cards and keyfobs <p>For more information visit http://www.hidcorp.com/pdfs/products/miniprox.pdf</p>	HDS/041/001
HID ProxPro II Reader 		HID ProxPro Proximity Reader	<ul style="list-style-type: none"> Available with a Wiegand or Clock-and-Data interface Read range 20cm, low power consumption Mounts directly on metal with minimal impact on the read range performance. Optional kit enables mounting behind glass. <p>For more information visit http://www.hidcorp.com/pdfs/products/proxpro2.pdf</p>	HDS/041/005
HID ProxPro II Reader with Keypad 		HID ProxPro Proximity Reader with keypad	<ul style="list-style-type: none"> Available with a Wiegand or Clock-and-Data interface Read range 20cm, low power consumption Mounts directly on metal with minimal impact on the read range performance. Optional kit enables mounting behind glass. 	HDS/041/004
HID iCLASS R10® HID iCLASS R30® HID iCLASS R40® 		HID iCLASS smart card readers	<ul style="list-style-type: none"> Contactless smart card reader Range range up to 8.3cm (R10), 10.2cm (R30), 10.8cm (R40) Reads HID cards and keyfobs <p>For more information visit http://www.hidcorp.com/pdfs/products/iclass_r10_30_40_datasheet.pdf</p>	iCLASS R10: HDS/048/010 R30: HDS/048/030 R40: HDS/048/040


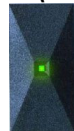
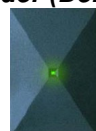



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HID iCLASS RK40® 		Read only contactless smart card reader with keypad	<ul style="list-style-type: none"> Using 13.56 MHz contactless smart card technology Combine a contactless card presentation with a personal identification number (PIN) to support dual authentication of identity. Offers the same features as the RK40, with the extended ability to read/write user data to HID iCLASS credentials. <p>For more information visit http://www.hidcorp.com/pdfs/products/iclass_rk40.pdf</p>	HDS/048/K40
HID iCLASS R90 		Long range smart card reader	<ul style="list-style-type: none"> Ideal for installations incorporating parking control and long read range applications. <p>For more information visit http://www.hidcorp.com/pdfs/products/r90.pdf</p>	HDS/048/090
IE SmartID MiFare Smartcard CSN reader 	Integrated Engineering (IE)	IE SmartID MiFare Smartcard CSN reader – (C&D/Wiegand) SI-8020	<ul style="list-style-type: none"> Read range 2-5cm Unique design Fits in modern environment – stylish and elegant <p>For more information: http://www.ieprox.com/files/Datasheets/060201-SmartID-line.pdf</p>	HDS/075/020
IE SmartID MiFare Flash & Pinpad CSN reader 	Integrated Engineering (IE)	IE SmartID MiFare Flash & Pinpad CSN (C&D/Weigand) SI-8045	<ul style="list-style-type: none"> Read range 2-5cm Unique design Fits in modern environment – stylish and elegant Flash & keypad <p>For more information: http://www.ieprox.com/files/Datasheets/060201-SmartID-line.pdf</p>	HDS/075/K45
i-key Receiver 	i-key	Long Range Access Control i-key Receiver RX	<ul style="list-style-type: none"> Dimensions 127(L) x 100(W) x 46(D) mm IP56 Rating Read range is 25 metres Frequency – 433.92 MHz 	Contact CEM for product code





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i-key Fob 	i-key	Long Range Access Control <i>i-key fob</i>	<ul style="list-style-type: none"> Convenience of long range access control with the simplicity of close range Proximity readers with i-key fobs Dimensions 54(L) x 38(W) x 15 (D) mm Weight 22g Frequency – 433.92 MHz 	* i-key fob only (<i>ikey TX</i>) * ikey Fob with HID (<i>ikey TX/H</i>) * ikey Fob with MiFare (<i>ikey TX/M</i>)
Farpointe MiFare Smartcard Reader (Delta 3) 	Farpointe Data, Inc.	Delta 3: ISO 14443 Type A and Type B Contactless Smart Card Reader	<ul style="list-style-type: none"> Contactless smart card technology Designed to mount directly to a metal door or window frame Delivers non-contact read ranges up to 2.5 inches (63.5 mm) Physical size – (76 x 38 x 12 mm) Available in both black and off-white covers. 	HDS/073/003
Farpointe MiFare Smartcard Reader (Delta 5) 	Farpointe Data, Inc.	Delta5: ISO 14443 Type A and Type B Contactless Smart Card Reader	<ul style="list-style-type: none"> Contactless smart card technology Designed to mount directly to a metal door or window frame Delivers non-contact read ranges up to 4 inches (100 mm) Physical size – (114 x 76 x 10 mm) Available in both black and off-white covers. 	HDS/073/005
Farpointe MiFare Smartcard Reader (Delta 6.4) 	Farpointe Data, Inc.	Delta 6.4: ISO 14443 Type A and Type B Contactless Smart Card Reader Plus keypad	<ul style="list-style-type: none"> Contactless smart card technology Designed to mount directly to flat surfaces & ideal for high security PIN, dual verification Delivers non-contact read ranges up to 3.25 inches (75 mm) Physical size – (117 x 77 x 11 mm) Produces enhanced visibility in dark locations Available in both black and off-white covers. 	Contact CEM for product code
L1 V-Flex 		Bioscrypt V-Flex (fingerprint reader with weigand input/output)	<ul style="list-style-type: none"> Biometric fingerprint reader. Stores 4000 fingerprints Requires external Wiegand device. Enrolment time: 3 seconds / Verification time: 1 second 	HDS/080/000

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OL1 V-Prox 		Bioscrypt V-Prox <i>(fingerprint reader with HID prox reader)</i>	<ul style="list-style-type: none"> • Biometric fingerprint reader. Stores 4000 fingerprints • Requires external Wiegand device. • Enrolment time: 3 seconds / Verification time: 1 second • Industry's most accurate finger-scan algorithm (FVC 2002 & 2004) <p>For more information: http://www.bioscrypt.com/products/vprox.shtml</p>	HDS/081/000
L1 V-Smart 		Bioscrypt V-Smart <i>(fingerprint reader with either MiFare or iClass reader)</i>	<ul style="list-style-type: none"> • Biometrics Dual-factor authentication with a finger and card! • Portable database - finger scans are stored on the smart card and not on the reader • Supports MIFARE® contactless smart card technology • Dual-factor authentication <p>For more information: http://www.bioscrypt.com/products/vsmart.shtml</p>	MiFare option: HDS/086/000 iClass option: Contact CEM