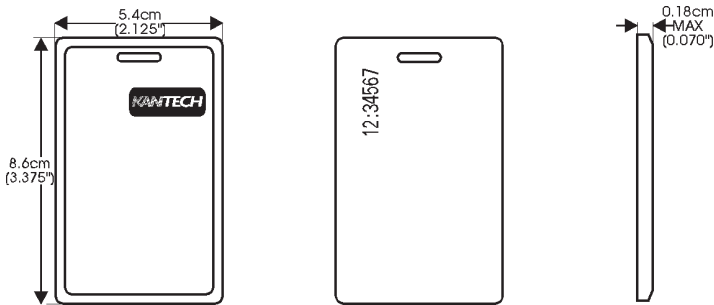


HID CARDS

PROXIMITY CARDS

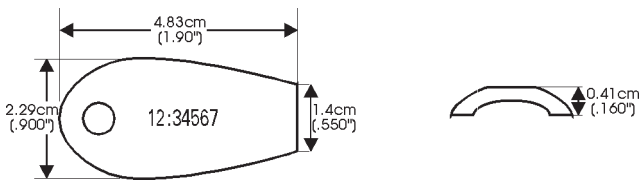
HID-C1226KSF / HID-C1346KSF
HID-C1386KSF / HID-C1336KSF
HID-C1366KSF

ProxCARD II HID-C1326KSF. Regular proximity card.



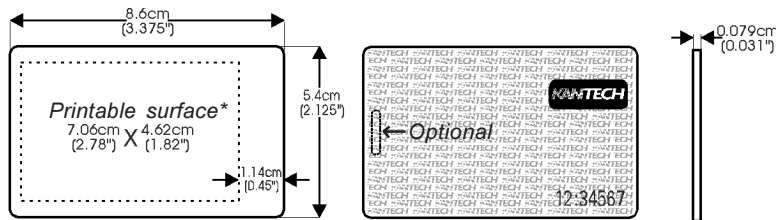
Part #	HID-C1326KSF
Typical read range	
MiniProx / ThinLine II.....	10 - 14 cm (4" - 5.5")
ProxPro.....	14 - 20 cm (5.5" - 8")
MaxiProx.....	40 - 60 cm (16" - 24")
Card dimensions	8.57 x 5.40 x 0.18 cm (3.375" x 2.125" x 0.070")
Card construction	ProxCARD II proximity cards are slot punched, and are compatible with most adhesive photo pouches.
Operating temperature	-45 °C to 70 °C (-50 °F to 160 °F)
Humidity	5% to 95% non condensing
Weight	6.8 gr (0.24 oz)
Certification	UL, CE

ProxKey II HID-C1346KSF. Keytag format.



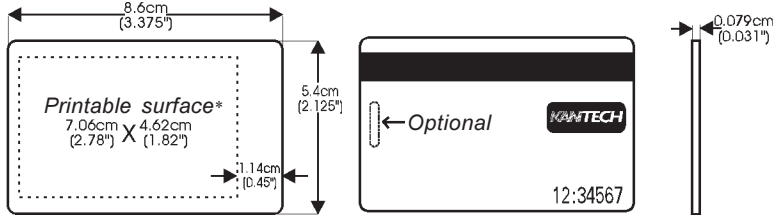
Part #	HID-C1346KSF
Typical read range	
MiniProx / ThinLine II.....	5 cm (2")
ProxPro.....	7.6 cm (3")
MaxiProx.....	30.4 cm (12")
Card dimensions	4.83 x 2.29 x 0.41 cm (1.9" x 0.9" x 0.160")
Card construction	The ProxKey II proximity card is strong and resistant to cracking and breaking.
Operating temperature	-45 °C to 70 °C (-50 °F to 160 °F)
Humidity	5% to 95% non condensing
Weight	7.3 gr (0.26 oz)
Certification	UL, CE

ISOProx II HID-C1386KSF. Proximity Card, a photo can be printed directly on the card (imaging).



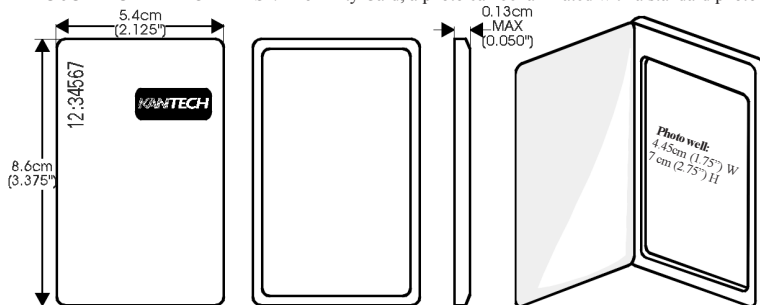
Part #	HID-C1386KSF, HID-C1386KSF/GG
Typical read range	
MiniProx / ThinLine II.....	10 cm (4")
ProxPro.....	15 cm (6")
MaxiProx.....	40.5 cm (16")
Card dimensions	5.40 x 8.57 x 0.079 cm (2.125" x 3.375" x 0.031")
Card construction	ISOProx cards are thin, flexible polyvinyl chloride laminate.
Operating temperature	-45 °C to 70 °C (-50 °F to 160 °F)
Humidity	5% to 95% non condensing
Color HID-C1386KSF	Front: glossy white. Back: white matte
Color HID-C1386KSF/GG	Glossy white on both side no logo
Weight	6.8 gr (0.24 oz)
Certification	UL, CE

DuoProx II HID-C1336KSF. Proximity/Magnetic Card, a photo can be printed directly on the card (imaging).



Part #	HID-C1336KSF, HID-C1336KSF/GG
Typical read range	
MiniProx / ThinLine II.....	10 cm (4")
ProxPro.....	15 cm (6")
MaxiProx.....	40.5 cm (16")
Card dimensions	8.57 x 5.40 x 0.079cm (3.375" x 2.125" x 0.031")
Card construction	DuoProx multiple technology cards are a thin, flexible laminate with ABA standard three-track magnetic stripe not encoded.
Operating temperature	-45 °C to 70 °C (-50 °F to 160 °F)
Humidity	5% to 95% non condensing
Color HID-C1386KSF	Front: glossy white. Back: white matte
Color HID-C1386KSF/GG	Glossy white on both side sans logo
Weight	6.8 gr (0.24 oz)
Certification	UL, CE

PhotoProx HID-C1366KSF. Proximity Card, a photo can be laminated with a standard photo laminator.



Part #	HID-C1366KSF
Typical read range	
MiniProx / ThinLine II.....	8 - 12 cm (3" - 5")
ProxPro.....	14 - 18 cm (5.5" - 7")
MaxiProx.....	46 - 61 cm (18" - 24")
Card dimensions	8.57 x 5.40 x 0.13 cm (3.375" x 2.125" x 0.050")
Card construction	PhotoProx ID cards are thin and flexible with an integral photo flap bonded on edge of the card.
Operating temperature	-45 °C to 70 °C (-50 °F to 160 °F)
Humidity	5% to 95% non condensing
Weight	6.8 gr (0.24 oz)
Certification	UL, CE

Security: The readers recognize over 16.7 million unique codes. Using KSF cards provides increased security and an absolute guarantee of no duplication of cards.



<http://www.avlelec.com>
<http://www.turnstiles.us>



MODEL THT-100 (3)



Shown: THT-100EA(3) with optional heel protectors and optional matching handicap gate (THG-51EA).

www.avlelec.com, inc. * www.turnstiles.us, inc.
8641 south warhawk road * conifer, colorado 80433
Tel: 303 670 1099 ext.11 * Fax: 303 679 8949
email: patrick.mcallister@avlelec.com

MODEL THT-100 (3)

- Model THT-100(3) 7" high Three Rotor Security Turnstile is designed for high security areas where emphasis is placed on secure, controlled and unsupervised access

OPERATION

- The rotor consists of three rotor sections spaced 120 degrees apart. The entry space restricts passage to one person at a time.
- Turnstiles can be mechanically controlled for simple exit-only operation or electrically operated. Electrical choices are: controlled in one direction, free or locked in opposite; and controlled in both directions. Any combination of fail-lock or fail-safe is available to suit system requirements.
- The electronic control board will easily interface with any access control device.

CONSTRUCTION

- The THT-100(3) is available in a wide variety of finishes including; hot-dipped galvanized, primed or power coated carbon steel; anodized aluminum with stainless steel arms; or complete stainless steel. All materials are designed to withstand abusive use and provide years of trouble free service.
- One-way mechanical turnstiles use a hardened clutch assembly to direct traffic flow.
- Electrical turnstiles use heavy duty electro-mechanical ratchet and pawl operating mechanism to restrict passage. All electrical controls are low voltage 24VDC.
- Open construction shield assembly design minimizes claustrophobic effect and increases visual security.
- Maximum open space is 5 ¼", too small to allow human penetration.
- Sealed top and bottom bearings provide free and easy rotation, even in hostile environments.
- Standard self-centering feature automatically returns rotor assembly to home position regardless of force used to pass through the turnstile, thereby assuring an accurate count and record of passage.

SPECIFICATIONS

- Height: 84" (mech) or 86" (elec.) Width: 60" Depth: 50" Shipping Weight: 600 lbs
- Warranted for Five Years from defects in material and workmanship; this warranty does not cover misuse or abuse.

ORDERING INFORMATION

- The base model is the THT-100(3). Add an "E" for electrical operation in front the of "3". Next, add a "C" for carbon steel, an "A" for aluminum or an "S" for stainless steel.
EXAMPLE: A THE-100ES3 is an electrical unit fabricated from stainless steel with 3 rotor sections>

OPTIONS

Two-Way Electrical Operation
Red and Green Indicator Lights
Heel Protectors
Key Override Switch

Time Out Relay
Rotation Detection Switch
Remote Release Button
Solenoid Activation Switch

Pulse Relay
Home Position Switch
Card Reader Mounting Plate
Out-of-Use Lock

Turnstile Check off Sheet
7' High Single Rotor Turnstile (Electric)

<http://www.avlelec.com>
<http://www.turnstiles.us>

COMPANY NAME: _____ PHONE # _____
 Authorized by: _____ Date: _____

Quantity: _____ Model # _____
 Rotor Sections: ± 3 ± 4

Please Indicate Functions:

Entry: ± Fail-safe ± Fail-lock (Electrical)
 ± Free Entry ± No Entry (Mechanical)

Exit: ± Fail-safe ± Fail-lock (Electrical)
 ± Free Exit ± No Exit (Mechanical)

Rotation: ± Clockwise Entry
 ± Counterclockwise Entry (shown at right)

Options: (additional cost)

- Pulse Relay: ± Entry ± Exit
- Time Out Relay: ± Entry ± Exit
- Indicator Lights: ± Entry ± Exit
- Rotation Detection Switch ± Entry ± Exit
- Card Reader Mounting Plate ± Entry ± Exit
- Pushbutton ± Entry ± Exit
- Heel Protectors: ±
- Shield End Caps ± (Galv or PC 3 section only)
- Hydraulic Speed Control ±

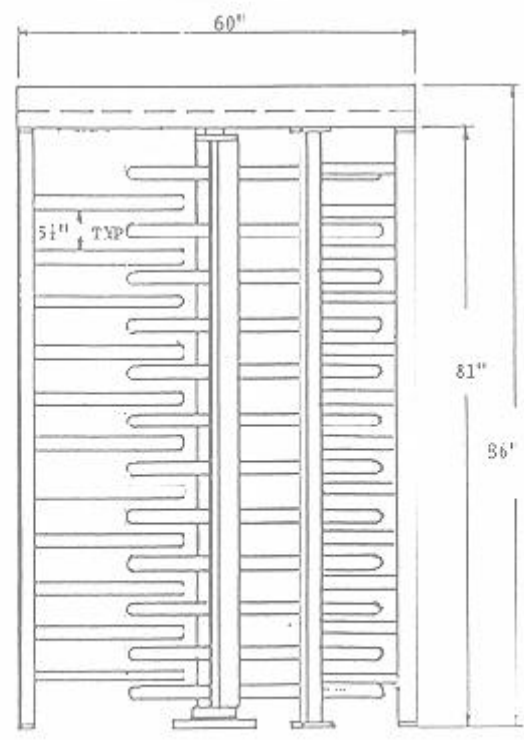
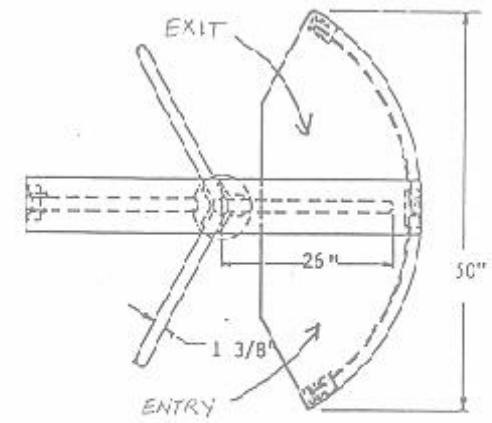
Construction Material:

- ± Steel Primed
- ± Steel Galvanized
- ± Steel Nylon Powder Coated (Indoor ± Outdoor ±)
- ± Aluminum-Stainless Combo
- ± Stainless Steel
- ± Electropolished (recommended for stainless steel outdoor use)
- ± Polycarbonate

Voltage:

± 110 VAC ± 220 VAC

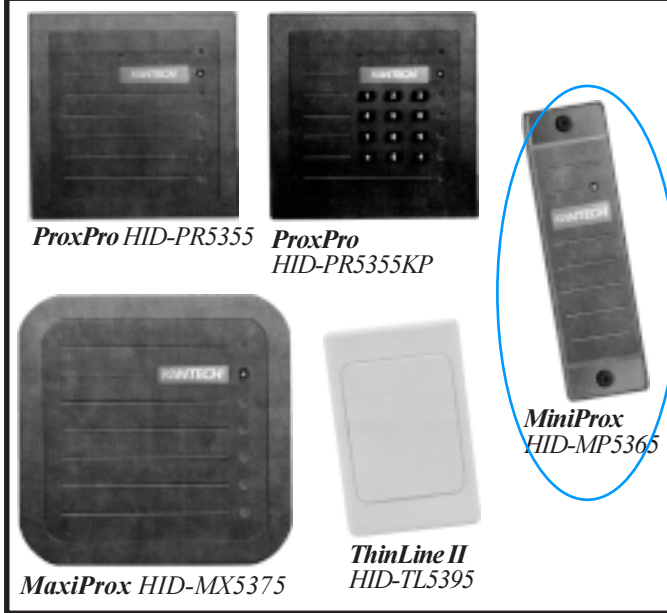
Special Functions: _____





ACCESS CONTROL AND INTEGRATED SYSTEMS

HID Readers



The **ProxPro™** reader combines all of the electronics usually found in two separate packages into a single, architecturally attractive enclosure that mounts to a standard single-gang box. With its inherently weatherproof design, the reader is easily mounted either indoors or outdoor. Integrated keypad option (KP) is available on this reader and is compatible with EntraPass, WinPass and KL-8000 only.

The long read range of the **MaxiProx™** reader provides a significant user advantage by minimizing or eliminating the effort required to present an access control card. This makes the reader ideal for installations incorporating parking control, or where special consideration is needed to facilitate access.

Audiovisual indication

When a proximity card is presented to the reader, the red LED flashes green and the beeper sounds. The multicolor LED and the beeper can also be controlled individually by the host system.

Diagnostics

On reader power-up, an internal self-test routine checks and verifies the setup configuration, and initializes the reader operation.

Security

The readers recognize over 137 billion unique codes. Using KSF cards (Secure Format) provides increased security and absolute guarantee of no duplication of cards.

The **MiniProx™** reader boasts a new slim design for a low-profile appearance. The attractive new design allows the Mini-Prox to be mounted indoors and match any decor.

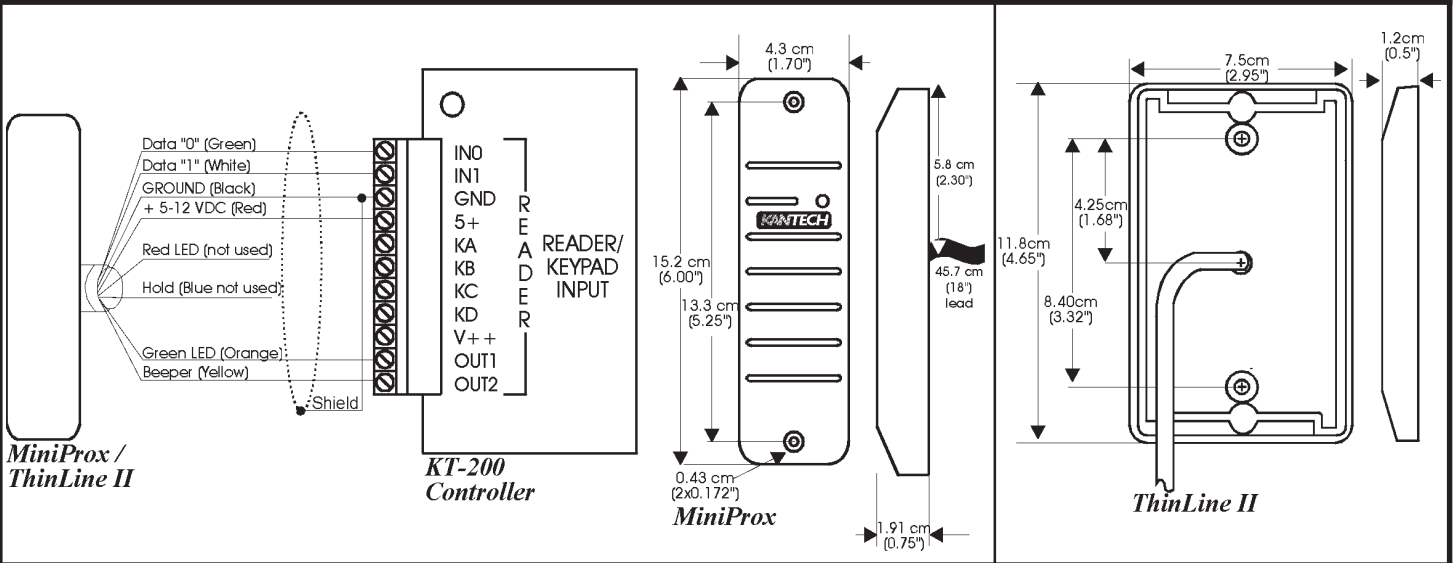
The **ThinLine II™** reader provides the same performance and reliability as the MiniProx but with a low profile appearance. Housed in an industry standard switch plate, the ThinLine is an attractive addition to any installation.

Technical Specifications

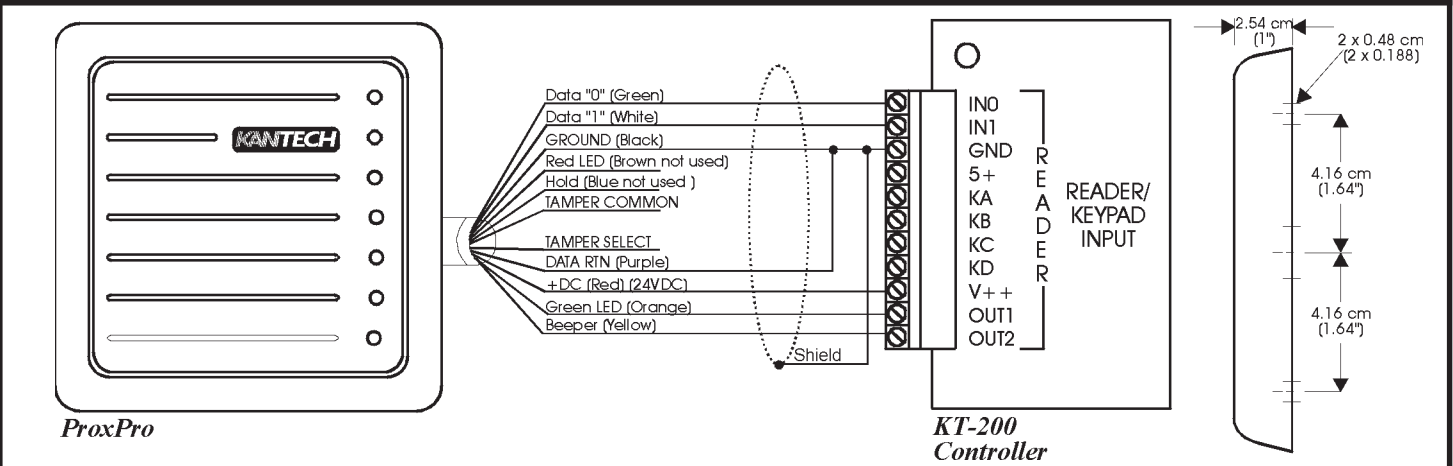
	HID-MP5365	HID-TL5395	HID-PR5355/KP	HID-MX5375
Typical read range.....	Up to 14 cm (5.5")	Up to 14 cm (5.5")	Up to 23cm (9")	Up to 61cm (24")
Power supply (linear power supplies are recommended)	5 to 16 VDC	5 to 16 VDC	10-28.5 VDC. Reverse voltage protection included	14-28 VDC. External power supply (24V recommended)
Average current (DC).....	50mA(5VDC) 60mA(12VDC)	50mA(5VDC) 60mA(12VDC)	100mA	1A
Peak.....	80mA(5VDC) 160mA(12VDC)	80mA(5VDC) 160mA(12VDC)	160mA	2A
Dimensions (H.W.D.) cm.....	15.2 x 4.3 x 1.91	11.8 x 7.5 x 1.2	12.7 x 12.7 x 2.54	30.5 x 30.5 x 2.54
Dimensions (H.W.D.) inches	6 x 1.7 x 0.75	4.65 x 2.95 x 0.5	5 x 5 x 1	12 x 12 x 1
Enclosure material.....	Polycarbonate UL 94	Polycarbonate UL 94	Polycarbonate UL 94	Polycarbonate UL 94
Weight.....	0.11Kg (0.24 lbs)	0.1Kg (0.23 lbs)	0.34Kg (0.75 lbs)	1.4 Kg (3.19 lbs)
Color.....	Charcoal	White	Charcoal	Charcoal
Operating temperature.....	-30°C to 65°C (-22°F to 150°F)	-30°C to 65°C (-22°F to 150°F)	-30°C to 65°C (-22°F to 150°F)	-30°C to 65°C (-22°F to 150°F)
Operating humidity.....	0-95% non condensing	0-95% non condensing	0-95% non condensing	0-95% non condensing
Utilization.....	Indoor/outdoor	Indoor/outdoor	Indoor/outdoor	Indoor/outdoor
Transmit frequency.....	125 kHz	125 kHz	125 kHz	125 kHz
Certifications.....	UL 294 Listed FCC part 15, (USA) DTI(MPT 1337) (UK) CE Comply	UL 294 Listed FCC part 15, (USA) DTI(MPT 1337) (UK) CE Comply	UL 294 approved FCC part 15, (USA) DTI(MPT 1337) (UK) CE Comply	FCC part 15, (USA) DTI(MPT 1337) (UK) CE Comply
Distance from controller BELDEN #9553 (18AWG)....	150 meters (500 feet)	150 meters (500 feet)	150 meters (500 feet)	150 meters (500 feet)

Compatible cards for all readers : Format: HID-C1326KSF, HID-C1336KSF, HID-C1346KSF, HID-C1366, HID-C1386KSF.
Weigand 26 bits Format: HID-C1326, HID-C1336, HID-C1346, HID-C1366, HID-C1386.

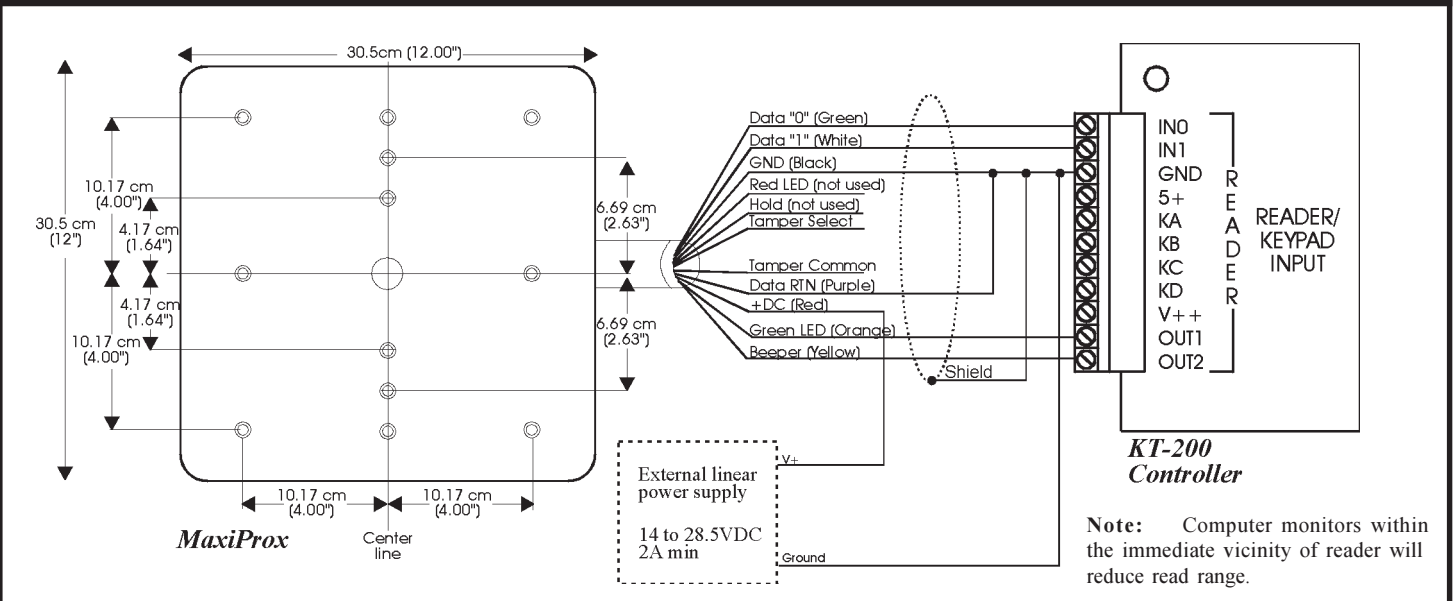
Wiring Diagram MiniProX (HID-MP5365)/ThinLine II (HID-TL5395)



Wiring Diagram ProxPro (HID-PR5355/KP)



Wiring Diagram MaxiProX (HID-MX5375)



E N T R A P A S S TM



High Performance Access Control System

High Performance
Access Control System

High Performance
Access Control System

EntraPass Global Edition is a powerful multi-user access control system that provides features required in the most demanding applications. It will adapt easily to your needs, allowing users to simultaneously access the system from up to 128 workstations connected to the network.

Network Ready

The **EntraPass Global Edition** network architecture supports existing TCP/IP network connection to remote sites. This eliminates high monthly fees for dial-up and dedicated phone lines.

Express SetUp

After answering a few simple questions during software installation, **Express SetUp** will automatically define all the necessary system components. This innovative feature reduces the time required to configure the system and eliminates programming errors.

On-Line Help

On-line context sensitive **Help** gives quick and easy access to the entire manual. As an added benefit, Help instantly displays the information relevant to the software menu from where it was requested.

Visual Diagnostics

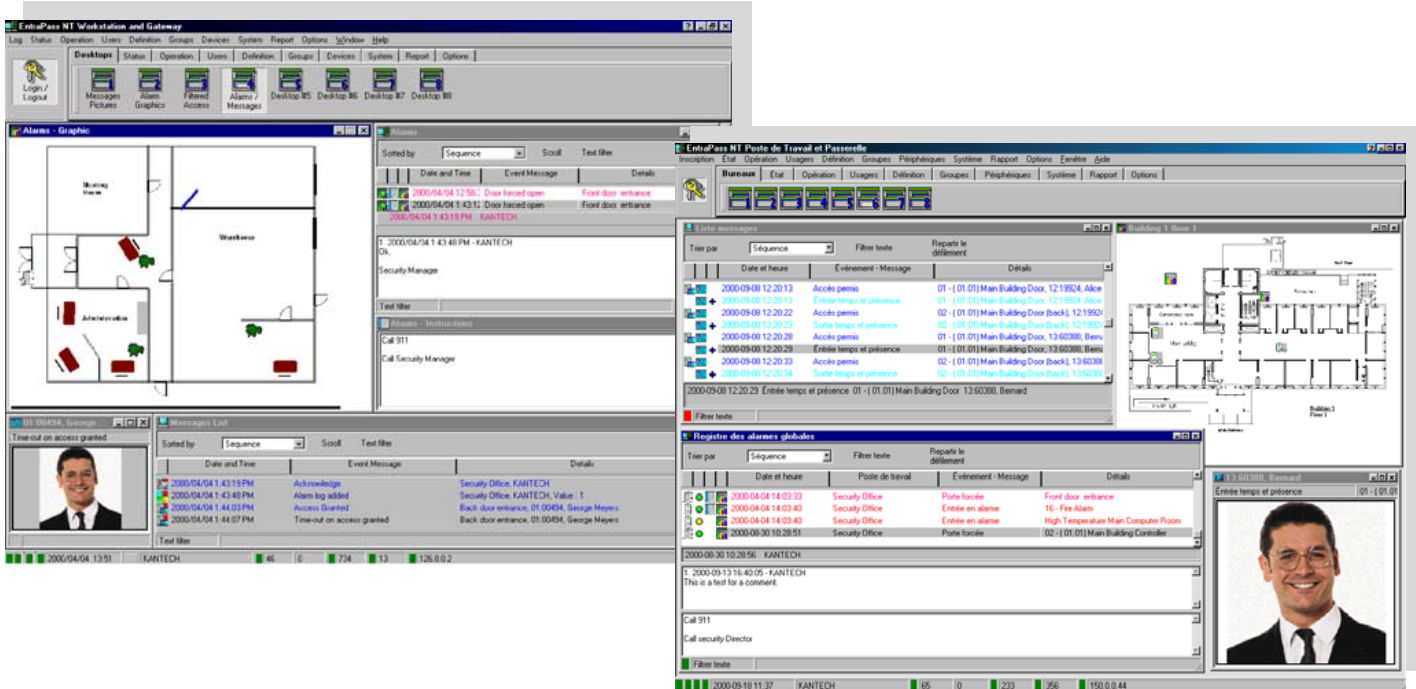
Visual diagnostics allow for viewing graphical representations of real-time status of door controllers. This is an invaluable tool displaying component status by controller.

Create Desktops Adapted to Individual Needs !



Configurable Desktops by Operator

Each operator can be assigned up to 8 pre-defined desktops. These desktops display selected windows featuring message events, user photos, filtered events, alarm instructions, high-resolution graphics and global alarms. Desktops can contain any combination of windows.



SmartLink for Simple System Integration

The optional SmartLink function allows real-time interfacing with most intelligent devices such as CCTV multiplexers, paging systems, HVAC systems, etc. by using an RS-232 connection between the system and the third-party device.

SmartLink for Advanced System Integration

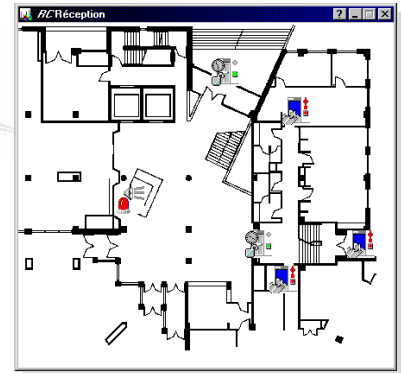
Advanced system integration can be accomplished by using the bi-directional SmartLink to communicate with software applications such as Time and Attendance systems, Badging systems, Human Resources Management systems, Student Registration systems, etc. through TCP/IP Protocol, RS-232 port or with DLL's. This allows for complete and real-time data exchange between systems, eliminating redundant data entry.

ENTRAPASS™

GLOBAL EDITION

Import High-Resolution Graphics

EntraPass Global Edition can import and display high-resolution graphics created on CAD-type systems allowing you to design a graphic-based system that operators can use with minimal training. Icons can be added to the graphics for real-time control of system devices with a mouse click.

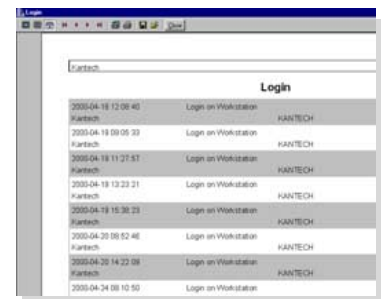
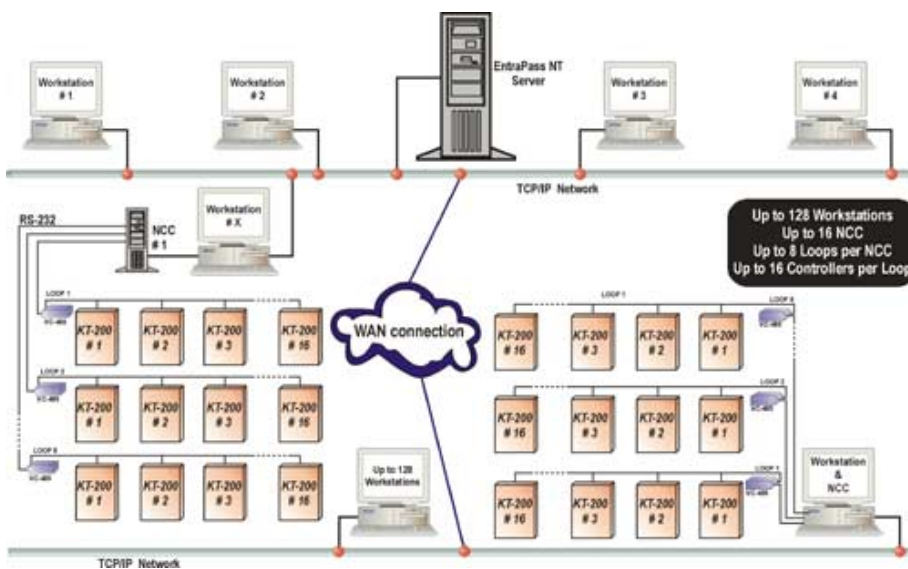


Import High Resolution Graphics
Assign icons for real-time control of system devices.

Alarm System Partitions

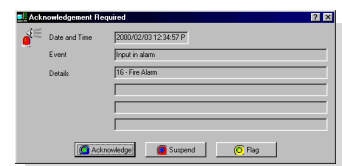
A site can be divided into 100 alarm system partitions. Each alarm partition can then be configured with any number of readers, door contacts, motion detectors, sirens, user access rights and arming schedule.

System Architecture



Historical Reports

The software offers extensive reporting capability, with customizable filters.



Acknowledgement Required

This screen will pop up whenever an event requires an acknowledgement (i.e. alarm, guard tour, etc.).

Other Features

- Time and Attendance
- Day Pass
- Guard Tour
- Elevator Control
- Card Gateway
- Redundancy Server

System Features

- Network Ready
- Up to 128 workstations
- Up to 4,096 card readers
- SmartLink Integration
- Up to 100 alarm system partitions per site
- Dynamic color graphics
- Visual Diagnostics



System Capacities

- Number of cards 32,000
- Card families or site codes Unlimited
- KT-200 door controllers. 2,048
- Card Readers 4,096
- Keypads 4,096
- Monitored points (inputs) 32,768
- Form C relay (REB-8) 4,096 (32,768)
- Auxiliary outputs for reader LEDs and door alarms 8,192
- Elevator floors per cab 64
- Card user access levels 250 per gateway
- Access level combination Unlimited
- Schedules of 4 time zones each 100
- Holidays. 366
- Supervisor levels 16
- Operator workstations 128
- Gateways 16
- System operator passwords Unlimited
- Operator security levels Unlimited
- Concurrent operator languages 2
- Number of printers 2 per workstation

Ordering Information

- **Entra-GLO** EntraPass Global Edition software package including one server license, one workstation license, Installer and Reference Manual, and User Guide.
- **Entra-GLO-WS**. EntraPass Global Edition additional workstation license and User Guide.
- **Entra-GLO-RDN** EntraPass Global Edition Redundancy Server option.
- **Entra-GLO-GATE** EntraPass Global Edition Card Gateway option.

Computer Requirements

Use	Minimum Processor	Minimum RAM (Recommended)	Minimum Free Hard Disk Space Required for Software	Minimum Screen Resolution and Video Card Memory	Operating System Compatibility	Dedicated
Workstation	Pentium III 450	64MB (128MB)	2GB	800 X 600 (4MB)	Windows 98/Me/2000	No
Gateway	Pentium III 450	64MB (128MB)	2GB	800 X 600 (4MB)	Windows 98/Me/2000	Yes
Server	Pentium III 450	64MB (128MB)	4GB	800 X 600 (4MB)	Windows 98/Me/2000	Yes

KT-300 Door Controller

INNOVATIVE AND POWERFUL

- Update Firmware Directly from System Workstation
- Fast! Up to 115,200 Bauds
- Ready to Go! No Dip Switches or Jumpers to Set!
- 5V and 12V Reader Power
- Input and Output Expansion Modules

Trouble and Reporting

The KT-300 constantly supervises battery conditions and reports "Low battery" or "No battery" status to the system. All power outputs are individually protected against short circuits and surges, by a self-resetting PTC. Locking devices are also supervised for short and open circuits.

Built-In Combus Expansion

The KT-300 supports expansion modules to add inputs, outputs and an LCD time display for Time and Attendance functions.



KT-300 Door Controller

INNOVATIVE AND POWERFUL

The KT-300 is designed to meet the highest standards of access control and point monitoring applications.

The KT-300 controls 2 doors and is easily linked to a network controlling thousands of doors.





Ordering Information

KT-300/128k	Door controller with 128k memory including KT-300CAB, KT-300ACC and KT-300LOCK
KT-300/512k	Door controller with 512k memory including KT-300CAB, KT-300ACC and KT-300LOCK
KT-300PCB/128k	KT-300/128k PCB only and accessory kit KT-300ACC
KT-300PCB/512k	KT-300/512k PCB only and accessory kit KT-300ACC
KT-300ACC	Accessory kit including: 2x1.0K ohms, 10x5.6K ohms, 2x120 ohms, PCB standoff, lock hole cover, ground wire and screwdriver
KT-PC4108	8-zone input expansion module for KT-300
KT-PC4204	4-relay and COMBUS additional power supply module for KT-300
KT-PC4216	16-output expansion module for KT-300
KT-RM1	External isolation relay SPDT for KT-300 output (RL1/RL2)
KT-LCD4501	LCD time & date display for KT-300, used for Time and Attendance
KT-300CAB	KT-300 black metal cabinet including KT-300LOCK
KT-4051CAB	Standard black metal cabinet for KT-PCxxxx modules (order keylock separately) 16-13/16" H x 10-3/8" W x 4-1/8" D (42.7cm x 26.4cm x 14.4cm) EMT 3/4" (1.9cm)
KT-300LOCK	Keylock for KT-300CAB and KT-4051CAB metal cabinet (2 keys / same as KT-200)
KT-300TAMP	Tamper switch for KT-300CAB and KT-4051CAB metal cabinet
TR1637W/CSA	AC Transformer, Wire-In, 110V/16V (37VA) CSA
TR1640P/CSA	AC Transformer, Plug-In, 110V/16V (40VA) CSA
TR1640P/UL	AC Transformer, Plug-In, 110V/16V (40VA) UL
TR1640W-220	AC Transformer, Wire-In, 220V/16V (40VA) CE
USB-485	USB to RS-485 communication interface

KT-300 Technical Specifications

Input power	16VAC, 40VA, class 2 transformer
Battery backup	1 battery 12V, 7AH, supervised, provides operation for up to 12 hours
Dimensions (H-W-D) inches	11-3/4" H x 11-3/8" W x 3" D (29.9cm x 28.8cm x 7.7cm) EMT 3/4" (1.9cm)
Weight (with metal cabinet)	5.4 lbs. (2.4 kg)
Operating temperatures	From 35°F to 110°F (2°C to 40°C)
Reader types	Wiegand, proximity, bar code, magnetic, integrated keypad and others
Monitored points (inputs)	8 monitored points, NO/NC, with or without end-of-line resistors (expandable to 16)
Points maximum wiring	2,000' (600 meters) – (AWG #22)
Door strike power	12VDC, 250mA each, supervised
Auxiliary outputs (LED, BUZ)	4 outputs, 25mA max each Open collector
Control relay outputs (R1, R2)	2 control relay outputs, 12VDC, 25mA totals each, Open collector (Optional relay RM1 available)
Auxiliary power output	12VDC @125mA max, protected and supervised
Reader power outputs	12VDC and 5VDC @125mA total, protected and supervised
Communication ports	RS232, RS485 and COMBUS
Communication speed	Up to 115,200 bps (automatic detection)
Firmware Flash memory	128k
RAM memory	128k (512 k unit available). Protected by a lithium battery
Network autonomy	Distributed data and processing
Certifications	UL294, CE, FCC

Expansion Modules Specifications

KT-PC4204	 4-relay and COMBUS additional power supply module. Current draw: 30mA (from Combus). 40VA 16-18V AC transformer required, maximum 12V 7Ah battery required. Four programmable relay form C contacts rated 2A. Tamper contact input. (UL, CE, FCC)
KT-PC4216	 16-output module. Current draw: 15mA (from Combus). Output 12VDC, 50mA max. each, power drawn from Combus. Tamper contact input. (UL, CE, FCC)
KT-PC4108	 8-zone input module. Current draw 30mA (from Combus). Aux. power 12VDC, 250mA max., drawn from Combus. Tamper contact input. (UL, CE, FCC)
KT-LCD4501	 LCD time/date display for Time and Attendance. Current draw: 50mA (from Combus). (UL, CE, FCC)

