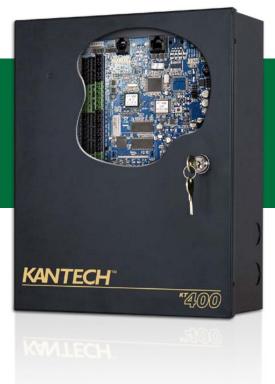


KT-400

Powerful, Ethernet-Ready Four-Door Controller

Features That Make a Difference1:

- Supports four readers
- Secure 128-bit AES encryption solution
- 100,000 cards per controller and 20,000 stored events in stand-alone mode
- Expansion flexibility connect up to 256 inputs and 256 outputs
- Full integration with DSC PowerSeries and MAXSYS alarm panels
- LEDs provide important controller status and diagnostic information



Ethernet-Ready Encrypted 4-Door Controller

The KT-400 is a 4-door Ethernet-ready controller providing a secure (128-bit AES encryption) solution for any enterprise looking for the highest available security. It easily integrates into existing EntraPass systems and with other Kantech controllers (KT-100, KT-200 and KT-300). The KT-400 can also provide the foundation - with the EntraPass system - for a brand new highly scalable security installation. An onboard Ethernet port ensures quick network connectivity and eliminates the need for an external Ethernet device.

Built-In Expansion

The KT-400 allows connection to expansion modules in order to add inputs or to add outputs such as relays and drain outputs. Combining input and output expansion modules provides the flexibility to connect up to 256 inputs and 256 outputs.

Status Indicators

LEDs provide important controller status and diagnostic information. The KT-400 has multiple LED status indicators for: troubleshooting, network activity, power status and outputs activity.

Easy Network Connectivity

The auto-sensing 10/100Base-T onboard Ethernet port automatically selects compatible Ethernet speeds to provide faster network connectivity. It eliminates the need to purchase an external Ethernet device, saving time and money. The KT-400 uses secure 128-bit AES encryption to communicate with the Gateway.

Features

Removable Terminal Blocks

In order to expedite installation and facilitate serviceability, KT-400 features removable terminal blocks that are simple to connect and are color-coded for quick identification.

Built-in Web Configuration

The web configuration page is accessible through any browser. It can be used to verify and configure the IP settings of the KT-400. For enhanced security, once the KT-400 is configured, the web configuration page can no longer be accessed. The KT-400 can be reset to factory default in the case of a configuration error and the web configuration page will once again be accessible.

Occupancy Level Controls

KT-400 supports occupancy restrictions for four local areas at the controller level with the anti-passback feature. This feature allows the operator to define a particular area that may have capacity limitations, such as an auditorium, conference room, or laboratory. The KT-400 can be configured to limit the amount of people permitted into this area. Once the limit has been reached, no additional personnel will be allowed to enter the defined location. This prevents overcrowding or violation of capacity regulations.

Low Bandwidth Consumption

The EntraPass software monitors events occurring at the doors by polling the KT-400 door controllers. The EntraPass Multi-Site Gateway only communicates with the KT-400 if an event has occurred. Communication integrity is ensured through a heartbeat signal which is sent at regular intervals to the EntraPass system. This asynchronous communication significantly reduces the amount of bandwidth required to manage the access control system over the network. If there is a communication failure between EntraPass and the KT-400, an alarm will be triggered in the EntraPass system.

Supervised Lock Power

KT-400 receives 12 to 24 VDC for up to 3 amps of supervised lock power with an external power source for added flexibility.

Multiple Communication Ports

KT-400 provides multiple controller configurations to suit your specific access control needs. These configurations provide communication with any device on the network for more connection options. You can choose any of the following options:

- IP (Ethernet)
- RS-485 (COM1) for communication between the EntraPass Gateway and KT-100, KT-200 (on a separate loop), KT-300, and KT-400
- RS-232 (COM3) for direct connection to the EntraPass Gateway

Configurable Reader Outputs

There are 4 different possible outputs for each of the 4 onboard reader interfaces for a total of 16 programmable outputs. Reader outputs are used to provide the user with visual (LEDs) and/or audible (buzzer) feedback on access control events.

End-of-Line Resistors

The KT-400 has an onboard capability of monitoring 16 input zones (expandable to maximum 256 zones with the addition of expansion modules). It can support a maximum of 128 inputs using double end-of-line (EOL) resistors or 256 inputs using none or single EOL resistors. This allows the system to monitor more states associated with a customer's installation, significantly increasing the level of security.

Alarm Panel Integration

Alarm panel integration can be accomplished by connecting the KT-400 controller to EntraPass Special, Corporate or Global Editions with Multi-Site Gateway. This in turn is connected to the DSC PowerSeries or MAXSYS alarm panels. The alarm panels are able to receive intrusion events, view the status of zones, and manage partitions and user codes. In addition the system can be armed/disarmed (single or multiple partitions) via reader or manual operation.

Elevator Interface

The KT-400 Ethernet Four-Door Controller supports elevator interfacing with the addition of expansion modules such as the KT-MOD-REL8, KT-MOD-INP16 and KT-MOD-OUT16.

Physical Cabinet Dimensions $(H \times W \times D) \dots 37.6 \times 30.5 \times 12.6 \text{ cm}$ (14.8 x 12.0 x 4.95 in) PCB Dimensions 22.9 x 14.0 x 5.2 cm (9.0 x 5.5 x 2.04 in) Cabinet Weight 4.0 kg (8.8 lb) **Environmental** Operating Temperature . . . 2° to 49° C (35° to 120° F); indoor use only Humidity Level..... Maximum 85% relative humidity noncondensing Electrical **Power Input** up to 12 hours of operation Reader Power Output . . . Maximum 500 mA @ 12 VDC, typical 125 mA per reader or 400 mA @ 5 VDC, typical 100 mA per reader, protected and supervised. The combined reader current cannot exceed 500 mA @ 12 VDC or 400 mA @ 5 VDC.

| Operational | |
|---------------------------|--|
| Reader Types | Wiegand, proximity, ABA clock and data, bar code, magnetic, integrated keypad, smart card |
| Monitored Points (Inputs) | |
| | AWG #22 – 600 m (2,000 ft) 12 VDC, 250 mA maximum each, supervised |
| Reader Outputs | 16 outputs, 25 mA maximum each, open collector outputs |
| Auxiliary Outputs | LEDs (door 1, door 2, door 3, door 4, LED, OUT1 and OUT2) and buzzers (Buz,door1, door 2, door 3, door 4) 25 mA each, open collector outputs |
| Controlled Output Relay | Four onboard Form C controlled outputs relay, 30 VDC, 3 amp max each |
| Communication Ports | RS-232 with RJ-12, RS-485, Ethernet 10/100Base-T with RJ-45 |
| Expansion Port | SPI 6-pin connector, bi-directional data exchange supported. Supplies 12 VDC, 500 mA maximum shared with 12 VDC auxiliary port |
| Auxiliary Port | Auxiliary 12 VDC, 500 mA maximum shared SPI expansion port |
| Communication Speed | Up to 115,200 baud (automatic detection over RS-232 and RS-485); 10/100Base-T over Ethernet |
| | 16 MB for application storage 64 MB for application loading and running, |

protected by a Lithium-Ion battery for a minimum of 75 hours

750 mA per lock for a total of 3 amp

| Rea | ulatory |
|------|----------|
| 1109 | uiutoi y |

EN61000-6-1, EN61000-6-2, EN55022, EN60950 FCC Class A UL-294, UL-1076 RoHS WEEE CE

Network Autonomy Distributed data and processing External Lock Power 12 or 24 VDC (up to 28 VDC) supply up to

Model Numbers

| Model Mullibers | |
|-------------------|--|
| | KT-400 four-door controller, IP-ready, accessory kit (KT-400-ACC), metal cabinet |
| KT-400-PCB | (KT-400-CAB) with lock (KT-LOCK) KT-400 four-door controller (PCB only), and IP-ready accessory kit (KT-400-ACC) |
| Expansion Modules | |
| | 16-zone input expansion module with SPI |

| KT-MOD-INP16 | 16-zone input expansion module with SPI cable (KT-MOD-SPI-16) |
|---------------|---|
| KT-MOD-REL8 | Eight-relay expansion module with SPI |
| | cable (KT-MOD-SPI-16) |
| KT-MOD-OUT16 | 16-zone output expansion module with SPI |
| | cable (KT-MOD-SPI-16) |
| KT-MOD-CAB | Expansion Module cabinet, black, with 92 |
| | cm (36 in) SPI cable (KT-MOD-SPI-36) and |
| | lock (KT-LOCK) |
| KT-MOD-SPI-16 | SPI cable 41 cm (16 in) |
| KT MOD CDL 96 | CDI coble 00 cm (06 in) |

| KT-MOD-SPI-36 | SPI cable 92 cm (36 in) |
|---------------|-------------------------|
| KI-MOD-SPI-16 | SPI cable 41 cm (16 in) |

| Integration Modules | |
|---------------------|--|
| | Kantech/DSC PowerSeries integration nodule. |
| lr | ncludes: DSC-IT100 integration module |
| a | ınd CBLK-IT100 cable kit |
| KT-4401VK K | Kantech/DSC MAXSYS integration module, |
| F | RS232 cable/connector, 1.8 m (6 ft) |
| CBLK-IT100 | Cable kit, RS-232 cable/connector set, |
| 3 | 3 m (10 ft), for integration between DSC- |
| П | T110 and either KT-400 4-door controller |
| 0 | or EntraPass software |
| | Cable kit, RS-232 cable/connector, 1.8 m 6 ft), and EPROM set. Compatible with |
| | PC-4401 DSC MAXSYS integration |

| Accessories |
|--|
| KT-400-ACC |
| KT-400-CAB Black metal cabinet with lock (KT-LOCK) |
| KT-400-CON Removable terminal block spare kit |
| KT-ACPW-LED UL AC power LED indicator |
| KT-3LED-PLATE UL-listed alarm, three-color LED indicator |
| mounted on single gang plate |
| KT-TAMPER Tamper switch for KT-NCC-CAB, |
| KT-300CAB, and KT-4051CAB metal cabinets |
| KT-LOCK Lock (and two keys) for KT-NCC-CAB, |

module

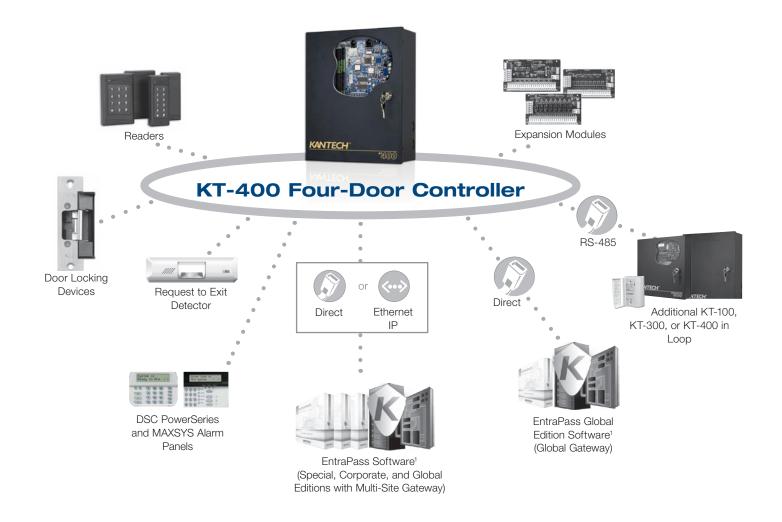
| Power Supplies | |
|----------------|---|
| TR1675 | Wire-in transformer, 110 VAC/ 16.5 VAC (75 VA), UL approved |
| KT-SW1224 | Power supply for expansion modules 12 VDC, 2 Amp |
| KT-BATT-12 | Gel cell battery, 12 V, 7 Ah Gel cell battery, 12 V, 12 Ah |

cabinets

KT-300CAB, and KT-4051CAB metal



Basic System Diagram



(1) KT-400 is compatible with EntraPass v4.01 and higher

Related Products









Expansion Modules

Approvals







EntraPass DSC PowerSeries and MAXSYS Security Software

Alarm Panels

www.kantech.com