KANTECH

A Tyco International Company

KT-315
Two-Reader Controller

Features That Make a Difference:

- Controls two readers and easily links to a network

- Update firmware directly from system workstation

- Fast operation, up to 115,200 baud

- Ready to go, no DIP switches or jumpers to set

- Interfaces with an external alarm system

- LEDs provide important controller status and diagnostic information

Scalable Two-Reader Door Controller

The KT-315 is a two-reader networkable door controller. It's a cost-effective solution for the security requirements of small and medium sized businesses. One controller supports up to two readers, installed on two separate doors or on a single door controlling both entry and exit. Each controller is linked to the others in the system using an RS-485 communication bus providing control for up to a million doors depending on the EntraPass security software Edition.

Easy Firmware Updates

The KT-315 features flash memory for easy firmware updates. The controller's firmware can be updated from any EntraPass workstation in just a few minutes. Flash memory saves time by allowing system updates from a PC without having to update each controller individually.

Speed Selection and Trouble/Reporting

KT-315 detects the system's communication speed (set by EntraPass) and assigns the controller's address, eliminating the need to set up DIP switches or jumpers. KT-315 also provides trouble reporting, constantly supervising locking devices for short and open circuits to detect lock failures. It also monitors battery condition to alert the system of low battery/no

battery status. All power outputs are individually protected against short circuits and surges by a self-resetting PTC.

Expandable

The KT-315 can be expanded via Combus expansion modules allowing for relay, input and output modules, and an LCD time and date display.

Status Indicators

LEDs provide important controller status and diagnostic information. The KT-315 has multiple LED indicators for: communication status, troubleshooting, network activity, power status and outputs activity.

External Alarm Interface

The KT-315 can interface with an external intrusion alarm system. An authorized individual can arm or disarm the alarm system simply by presenting their card to a reader.

Network Connectivity

The KT-IP (IP controller module) provides affordable and secure LAN/WAN network connectivity for the KT-315 door controller. In this setup, the KT-315 is first connected to a VC-485 (RS-232/RS-485 interface). Then the VC-485 is connected to the KT-IP (and both devices are powered by the KT-315). The KT-IP relays information between the KT-315 and the EntraPass Multi-Site Gateway.

![KANTECH - A Tyco International Company]

Physical

Dimensions . . . . 29.9 x 28.8 x 7.7 cm (11.75 x 11.38 x 3.0 in)
Knock Out Dimensions . . . . . . 1.9 cm (0.8 in)
Weight (with metal cabinet) . . . 2.4 kg (5.4 lbs)

Environmental

Operating Temperatures . . . . . 2° to 40°C (35° to 104°F)

Electrical

Input Power. . . . . 16 VAC, 40 VA, Class 2 transformer
Battery Backup . . . . One battery 12V/7Ah, supervised, provides operation for up to 12 hours
Auxiliary Outputs (LED, BUZ). . Four outputs, 25 mA max. each, open collector
Control Relay Outputs (R1, R2) Two control relay outputs, 12 VDC, 25 mA totals each, open collector (optional relay KT-RM1 available)
Auxiliary Power Output . . . . . . 11.1 VDC to 13.8 VDC @175 mA maximum, protected and supervised
Reader Power Outputs . . . . . . 12 VDC and 5 VDC @125 mA total, protected and supervised
Door Strike Power. . . . . 12 VDC, 250 mA each, supervised

Operational

Compatible Reader Types . . . . Wiegand, proximity, bar code, magnetic, integrated keypad, and others
Monitored Points (Inputs). . . . . Four monitored points, NO/NC, with or without end-of-line resistors (expandable to 12)
Max. Wiring Distance. . . . . 600 m (2,000 ft) – (AWG #22)
Communication Ports . . . . RS-232, RS-485, and Combus
Communication Speed . . . . . . Up to 115,200 baud (automatic detection)
Firmware Flash Memory 128K
RAM . . . . 128K, protected by a lithium battery
Network Autonomy . . . . Distributed data and processing

Regulatory

Certifications . . . . UL 294, CE, FCC

Model Numbers

Door Controllers

KT-315 . . . . KT-315 two-reader controller, 128KB memory, accessory kit (KT-315-ACC), metal cabinet (KT-315CAB) with lock (KT-LOCK)
KT-315PCB. . . . . KT-315 two-reader controller PCB only, 128KB memory, accessory kit (KT-315-ACC)

Expansion Modules

KT-PC4108 . . . . 8-zone programmable input expansion module
KT-PC4204 . . . . 4-relay output and Combus power supply module
KT-PC4216 . . . . 16-zone programmable output expansion module
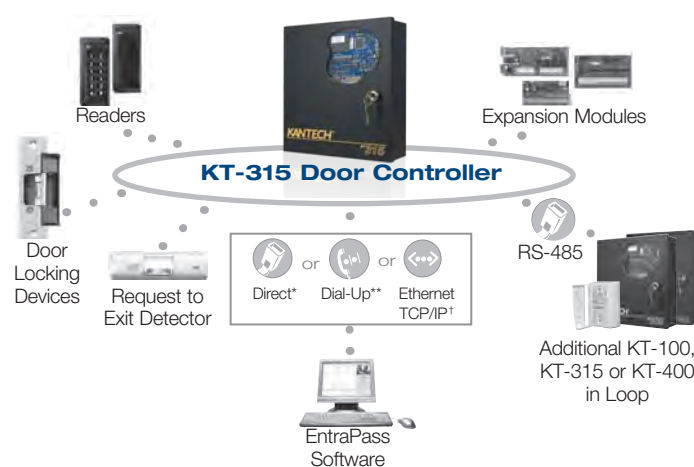
Accessories

KT-300-ACC . . . . KT-300 accessory kit, includes: two 1.0K ohm, ten 5.6K ohms, two 120 ohms end-of-line resistors, PCB standoff, lock hole cover, ground wire and screwdriver
KT-RM1. . . . . External isolation relay, single pole, double through (SPDT) for output RL1/RL2
KT3-LCD. . . . . LCD time and date display
KT-300CAB. . . . . Black metal cabinet with lock (KT-LOCK)
KT-4051CAB. . . . . Black metal cabinet for expansion modules. Order KT-LOCK separately.
KT-LOCK. . . . . Lock for KT-300-CAB & KT-4051-CAB, metal cabinets, 2 keys
KT-TAMPER. . . . . Tamper switch for KT-300-CAB & KT-4051CAB metal cabinets

Power Supplies

TR1637W/CSA . . . . AC transformer, wire-in, 110V/16V (37 VA) CSA
TR1640P/CSA. . . . . AC transformer, plug-in, 110V/16V (40 VA) CSA
TR1640P/UL . . . . AC transformer, plug-in, 110V/16V (40 VA) UL
TR1640W-220. . . . . AC transformer, wire-in, 220V/16V (40 VA) CE

Basic System Diagram

Readers — KT-315 Door Controller — Expansion Modules

Door Locking Devices — Request to Exit Detector — Direct* or Dial-Up** or Ethernet TCP/IP† — RS-485 — Additional KT-100, KT-315 or KT-400 in Loop

EntraPass Software

* Direct via RS-232 or RS-485 with USB-485 or VC-485 converters
** Dial-up: Using RS-232 serial modem at remote site
† Ethernet TCP/IP: Using Lantronix Universal Device Server, or using Kantech IP Link with EntraPass Special Edition/Corporate Edition/Global Edition. A Multi-Site Gateway is required with EntraPass Global Edition

Related Products

EntraPass Security Software

KT-PC4216 16-zone output module

KT-PC4204 4-relay output & power supply module

Approvals

www.kantech.com