KANTECH

A Tyco International Company

KT-100
Mini Door Controller

Features That Make a Difference:

- Easy firmware updates

- Fast communication speed up to 115,200 baud

- Trouble supervision

- Fast and easy installation

- Interfaces with an external alarm system

- DC Powered Controller

Compact and Versatile Single Door Controller

The KT-100 Mini Door Controller is compact and versatile with a space-saving design that incorporates all the components and equipment found in much larger controllers. Choose it for installations near a door, within a ceiling, involving turnstiles and parking gates. The KT-100 contains all the intelligence and necessary inputs/outputs to manage two readers on one door. Or link the KT-100 with other controllers (via RS-485 connection) to control thousands of readers.

Easy Firmware Updates

KT-100 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.

Trouble Supervision

The KT-100 constantly supervises the power supply, short-circuit and surge conditions and reports status to the EntraPass software. The power output is protected against short-circuits and surges by a self-resetting PTC.The equipment is also monitored for failure or tampering.

Fast and Easy Installation

Mounts on the secure side of a door, reducing the length of cable required for installations. Has no DIP switches or jumpers to set. Includes connections for 2 card readers (entry/exit), lock device, door contact and request to exit. Mounting is easy: it can be placed on a single gang box (flush mount) or on a surface back box specially designed for it.

External Alarm Interface

The KT-100 can interface with an external intrusion alarm system. An authorized individual can arm or disarm the alarm system simply by presenting his/her card to a reader.

Network Connectivity

The KT-IP (IP controller module) provides affordable WAN/LAN network connectivity for the KT-100 mini door controller. In this setup, the KT-100 is first connected to a VC-485 (RS-232/RS-485 interface). Then the VC-485 is connected to the KT-IP. If there is a loss of communication with one of the controllers, the VC-485 will preserve communication with the other controllers. The KT-IP relays information between the KT-100 and the EntraPass Multi-Site Gateway.

Physical

Dimensions (H·W·D) Inches . . . . 11.4cm H x 7cm W x 3cm D
(4.5" x 2.75" x 1.25")

Environmental

Operating Temperatures . . . . . . From 2°C to 40°C (35°F to 110°F),
Maximum 95% humidity, non-condensing

Electrical

Input Power. . . . . 9.5 to 14 VDC/50 mA + accessories
(maximum 750 mA)
Battery Backup . . . . 1 lithium battery, up to 10 year retention
Door Strike Power . . . . 12 VDC, 250 mA each, supervised
Auxiliary Outputs (LED, BUZ). . . 2 outputs, open NPN collector for door
access & status 25 mA maximum, 12 VDC
each
Control Relay Outputs . . . . 2 relay outputs, 12V DC, 25 mA maximum/
(R1, R2, R3, R4) each. Open collector to ground (use form C
relays such as Kantech/KT-RM1 if needed).
2 control relay outputs, 30 VAC/VDC, 50 mA
(max) each. Two opto-isolated contacts per
relay.
Reader Power Outputs . . . . 5 VDC @150 mA total, protected

Operational

Compatible Reader Types . . . . . Wiegand, proximity, bar code, magnetic
stripe, integrated keypad and others
Monitored Points (Inputs). . . . . . 4 monitored points, NO/NC, with or without
single end-of-line resistors
Maximum Wiring Distance . . . . . 600 m (2,000 ft) – (AWG #22)
Communication Ports RS-485
Communication Speed . . . . From 1,200 to 115,200 baud
(automatic detection)
Firmware Flash Memory 64K
RAM Memory . . . . 128K, protected by a lithium battery
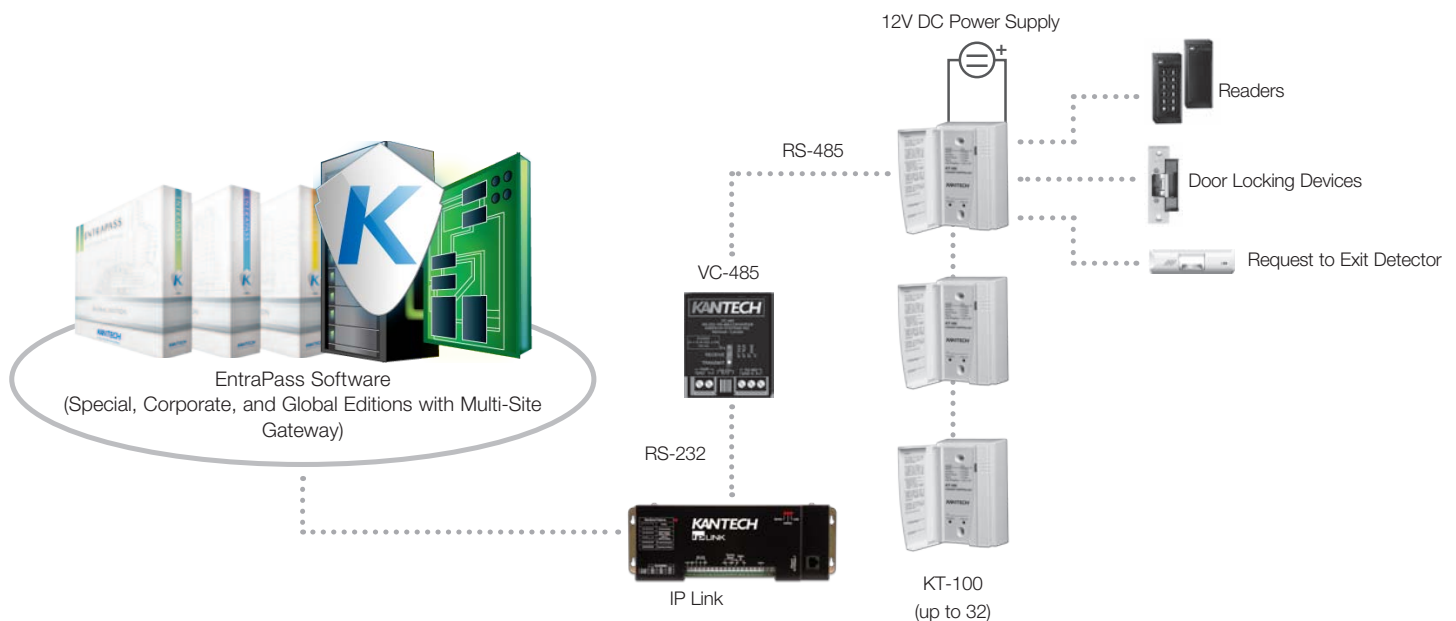Network Autonomy . . . . Distributed data and processing

Regulatory

Certifications/Listing . . . . FCC Part 15, Class B; CE approved
(EN 55022, EN 50130-4)

Model Numbers

KT-100 . . . . Mini Door Controller
(requires 12 VDC power supply)
MUSB-1WHT . . . . KT-100 white color surface mounting box
VC-485 . . . . RS-232/RS-485 multi-function
communication interface
USB-485 . . . . USB to RS-485 communication interface
KT-IP . . . . Kantech IP Link TCP/IP interface

Basic System Diagram

EntraPass Software
(Special, Corporate, and Global Editions with Multi-Site
Gateway)

12V DC Power Supply

RS-485

VC-485

RS-232

IP Link

Readers

Door Locking Devices

Request to Exit Detector

KT-100
(up to 32)

Related Products

USB-485

Kantech IP Link
TCP/IP Interface

EntraPass Security
Software

Approvals

RoHS
2002/95/EC

CE

www.kantech.com