



The KT-300 door controller supports up to two readers, which you can install either on a single door to monitor both entry and exit or on two separate doors. It provides connections for all peripheral devices necessary for a complete access control system and can link with other door controllers to give you control over thousands of doors.

Stand-alone mode protects against power or system failures and the system stores cardholder and event data, which is automatically transmitted back to the EntraPass system once the network connection is restored. Flash memory lets you update firmware from your EntraPass workstation in just a few minutes.

## KT-300 Door Controller

### Features That Make a Difference:

- Controls two doors 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
- 5V and 12V reader power
- Interfaces with an external alarm system
- Automated trouble reporting
- Supervises battery conditions and reports low battery/no battery status to the system
- All power outputs individually protected against short circuits and surges by a self-resetting PTC
- Choice of 128K or 512K memory capacities

KT-300 detects the system's communication speed and assigns the controller's address, eliminating the need to set up switches or jumpers. KT-300 also provides trouble reporting, constantly supervising locking devices for short and open circuits to detect lock failures and monitoring battery condition to alert the system of low battery/no battery status. All power outputs are individually protected and self-resetting against short circuits and surges.

Built-in Combus expansion means you can add relay, input, and output modules to connect HVAC systems, elevators, motion detectors, and more. You can add an LCD to view time and date information. Additionally, KT-300 can interface with external alarm systems so that an authorized individual can arm or disarm them simply by presenting his/her access control card to a reader.

### Physical

#### KT-300

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)  
 Communication Ports . . . . . RS-232, RS-485, and Combus

### Environmental

#### KT-300

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

### Electrical

#### KT-300

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 . . . . . 12 VDC @125 mA max., 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

#### Four-Relay and Combus Additional Power Supply Module (KT-PC4204)

Current Draw . . . . . 30 mA from Combus  
 Input Power . . . . . 40 VA-16 VAC transformer required  
 Battery . . . . . 12V/7Ah maximum  
 Output . . . . . Four programmable Form C relay contacts rated 2A

Input . . . . . Tamper contact

#### 16-Output Expansion Module (KT-PC4216)

Current Draw . . . . . 15 mA from Combus  
 Output . . . . . 12 VDC, 50 mA max. each, drawn from Combus  
 Input . . . . . Tamper contact

#### Eight-Zone Input Expansion Module (KT-PC4108)

Current Draw . . . . . 30 mA from Combus  
 Output . . . . . Auxiliary 12 VDC, 250 mA max., drawn from Combus  
 Input . . . . . Tamper contact

#### Time/Date Display (KT3-LCD)

Current Draw . . . . . 50 mA from Combus

### Operational

#### KT-300

Compatible Reader Types . . . . . Wiegand, proximity, bar code, magnetic, integrated keypad, and others  
 Monitored Points (Inputs) . . . . . Eight monitored points, NO/NC, with or without end-of-line resistors (expandable to 16)  
 Max. Wiring Distance . . . . . 600 m (2,000 ft) – (AWG #22)  
 Communication Speed . . . . . Up to 115,200 baud (automatic detection)  
 Firmware Flash Memory . . . . . 128K  
 RAM . . . . . 128K (512K unit available), protected by a lithium battery  
 Network Autonomy . . . . . Distributed data and processing

### Regulatory

#### KT-300

Certifications . . . . . UL 294, CE, FCC

#### Four-Relay and Combus Additional Power Supply Module (KT-PC4204)

Certifications . . . . . UL, CE, FCC

#### 16-Output Expansion Module (KT-PC4216)

Certifications . . . . . UL, CE, FCC

#### Eight-Zone Input Expansion Module (KT-PC4108)

Certifications . . . . . UL, CE, FCC

#### Time/Date Display (KT3-LCD)

Certifications . . . . . UL, CE, FCC

### Model Numbers

KT-300/128K . . . . . Door controller for two readers with 128K memory, includes metal cabinet, KT-300-ACC, and KT-LOCK  
 KT-300/512K . . . . . Door controller for two readers with 512K memory, includes metal cabinet, KT-300-ACC, and KT-LOCK  
 KT-300PCB128 . . . . . Door controller with 128K memory (PCB only) and accessory kit (KT-300-ACC)  
 KT-300PCB512 . . . . . Door controller with 512K memory (PCB only) and accessory kit (KT-300-ACC)  
 KT-300-ACC . . . . . KT-300 accessory kit includes: 1.0K ohms (2), 5.6K ohms (10), 120 ohms (2), PCB standoff, lock hole cover, ground wire, and screwdriver  
 KT-PC4108 . . . . . Eight-zone input expansion module for KT-300  
 KT-PC4204 . . . . . Four-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)  
 KT3-LCD . . . . . LCD monitor for time and data information for KT-300  
 KT-300CAB . . . . . KT-300 black metal cabinet including KT-LOCK  
 KT-4051CAB . . . . . Standard black metal cabinet for KT-PC4204, KT-PC4216, and KT-PC4108 modules (order key lock separately)  
 42.7 x 26.4 x 14.4 cm (16.8 x 10.4 x 4.1 in)  
 EMT 1.9 cm (0.8 in)  
 KT-LOCK . . . . . Keylock for KT-300CAB and KT-4051CAB metal cabinets, includes two keys  
 KT-TAMPER . . . . . Tamper switch for KT-300CAB and KT-4051CAB metal cabinet  
 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 (37 VA) CE  
 USB-485 . . . . . USB to RS-485 communication interface  
 VC-485 . . . . . RS-232 to RS-485 communication interface  
 KT-BD7-12 . . . . . Rechargeable battery, 12V/7Ah, package of five  
 KT-BATT-12 . . . . . Rechargeable battery, 12V/7Ah, package of one

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.

© 2009 Tyco International Ltd. and its respective companies. All rights reserved. KT0137-DS-200904-R01-A4-EN