

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.



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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)

