

The KT-200 Controller



Complete and reliable

The **KT-200** controller has been designed to meet most access control and point monitoring applications without expensive add-ons.

The KANTECH system provides users with much more than basic access control features. In its standard configuration, the system not only provides sophisticated features for the most demanding installation, but complies with functionality and budgetary requirements.

Simple installation, ease of maintenance, reliability. Thousands of installations have proved that these qualities insure continued problem free operation.

The KT-200 can control two access doors or be linked to a network controlling hundreds of doors. The small initial system can grow without replacing the original controllers.

Identification technologies

Proximity, Wiegand, Magnetic, Bar Code, Biometric, Keypads and others.

Also on this sheet:

TR 2475, REB-8

Card access control system

Each KT-200 controller can operate two card readers and/or two numeric keypads. It is capable of controlling one door (with readers/keypads on each side of a single door) or two separate doors with only one reader/keypad each.

Access authorization is determined by the programmed parameters contained in the controller's memory. Since each user has a unique identification card or PIN, it is possible to limit or permit access to each door according to different parameters such as the day of the week and the time of day.

Visual and audible feedback of the access decision can be provided to the card holder using two auxiliary outputs per reader.

Auxiliary outputs can also serve as local door alarms to report door forced open, door open too long, door unlocked, etc.

Point monitoring

Each KT-200 can monitor the state of 16 input points such as magnetic contacts, motion detectors, temperature sensors or any other device with dry contacts. To insure line integrity, all zones are terminated with end-of-line resistors.

Output control relays

Two additional output control relays provided on each KT-200 can be used to activate alarms or other devices such as lighting control, ventilation, air conditioning. These relays can be activated according to schedules, events reported by the system or a combination of different logic conditions.

System configuration

The system configuration is determined by a choice of EPROMs available to meet different systems and capacity requirements.

As the system is expanded, the KT-200 circuit board remains the same. This feature provides flexibility and savings in the future.

Exclusive power supply

The KT-200 provides an exclusive power supply designed to challenge the most demanding environments. Main functions of the KT-200 are individually protected by their "polyswitch" (self reset fuse).

The KT-200 also provides the power requirements for readers, keypads and door locking devices. No more expensive and problem prone separate power supplies!

Memory and autonomy

All KT-200 controllers keep the access control database in memory. This means that the KT-200 keeps all information regarding cards, schedules, access codes and can verify access requests even when it is disconnected from the network.

The memory is also protected by a lithium battery maintaining data even if the usual battery backup is disconnected. Date and time are also maintained by this on-board battery.

Other features

Three communication protocols offered: RS-232, RS-485 and 20ma.

All connectors are plug-in type, reducing wiring errors and making it easy to remove for testing or service.

The back-up battery condition is supervised to save battery life and prevent erratic operation because of low battery or failure.

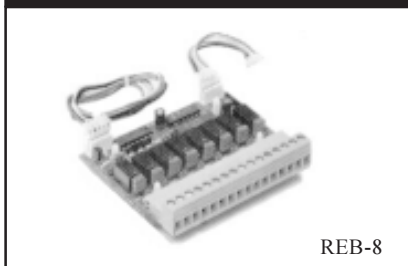
Each KT-200 is burned-in for a full 48 hours of operation before it leaves the factory.

Since the KT-200 uses recognized standards, it can easily upgrade existing installations that may have become outdated.

The cabinet includes a key lock and has ample room for batteries and wiring. Knock-outs are provided for both 1,25cm (1/2") and 1,9cm (3/4") conduits.

The cabinet can be wall mounted without having to remove the circuit board.

Accessories



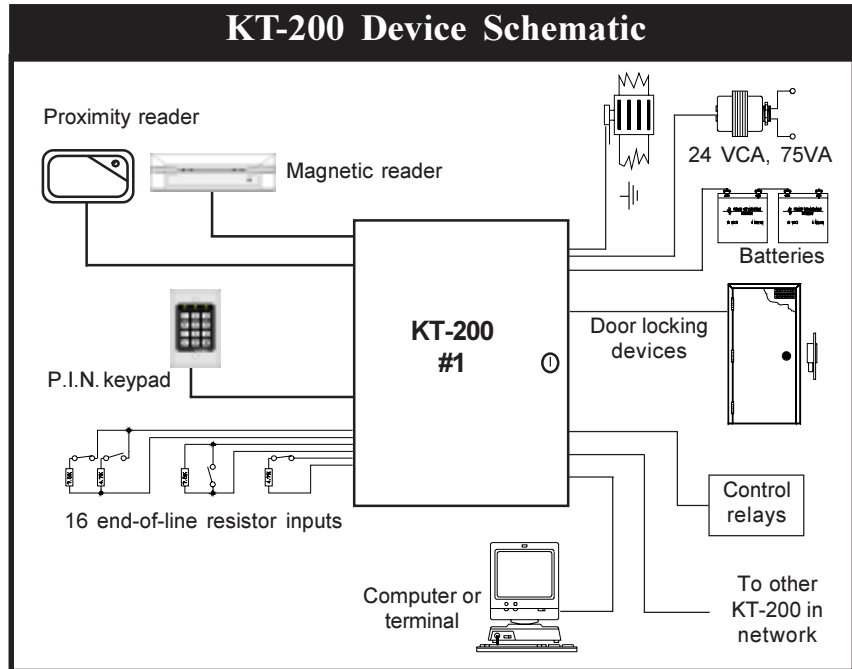
REB-8

TR2475 Wire-in transformer 110-120 VAC to 24 VAC/75VA. Fits on 100 x100mm (4" x 4") electrical box.

REB-8 Relay expansion board to add 8 additional general purpose control relays. 30 VDC/24VAC, 1A. Up to 16 relays per controller. (Requires appropriate system level)

CS1114EN-9806

KT-200 Device Schematic



Technical Specifications

AC power	24 volts AC., 75 VA, class 2
Battery back-up	2 gel type batteries 12V, 7AH provide operation for 8 hours.
Cabinet measurements	39,4cm H, 34,5cm W, 9,8cm D (15-1/2", 13-5/8", 3-7/8") EMT 1,25cm (1/2") and 1,9cm (3/4") knock-outs.
Weight	6kg (13.8 lbs)
Operating temperatures	From 2°C to 40°C (35°F to 110°F), at 90° non condensing humidity
Processor	Z80- 6Mhz, with "watchdog" circuit
Reader technologies	Proximity, Weigand, magnetic, bar code, keypads and others.
Reader maximum distance	150 meters (500 feet) from KT-200
P.I.N. confirmation	At each reader equipped with keypad
Monitor points	16 monitor points, NO/NC, supervised by end-of-line resistors (included).
Points maximum wiring	600 meters (2,000 feet) - AWG#22
Door strike power	Supplied by the KT-200: 27 volts DC, 250mA maximum
Auxiliary outputs	27 volts DC, 50mA, open collector
Control relays	2 relays, 30VDC/24VAC, 2A max. Possible expansion to 16 relays.
Tamper switch	Normally closed
Communications ports	RS232, RS485 and 20mA
Communication speeds	From 300 to 19,200 bauds
Internal memory	Maintained by lithium battery
Network autonomy	Distributed data and processing

SYSTEM configuration

(Please refer to configuration technical specifications)

Eproms available for Stand Alone Dial-up System, Computer Based System, Network Server Based and Multiple Workstation System.