



Quantel Australia

Product
Profile

Quantel Gatekeeper



Overview

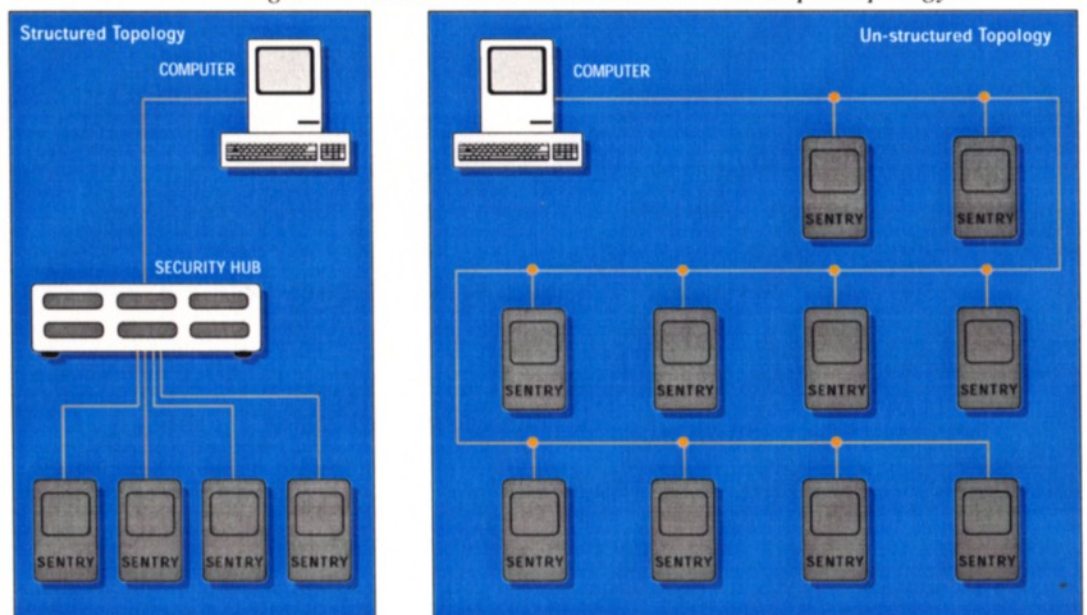
The Gatekeeper security system is a collection of interlinked devices, which are briefly described as follows:

- Physical access control is provided by Gatekeeper Sentries. Each Sentry is a self-sufficient, self-contained keypad device that affords control of a restricted area. Sentries communicate with each other (and the outside world) using a computer network.
- Each Sentry is fully configurable. This includes assigning authorised users, specifying what features to use, and even what text appears on the display. Sentry management is performed using the Gatekeeper Application.

This is a user-friendly computer program, operating on a desktop computer, that instructs Gatekeeper Sentries how they should behave. It also receives information from Sentries about the current security status of the system, and provides an easy to read summary for the operator. Currently, the Macintosh is supported; versions are planned for other platforms.

- Management of large installations is simplified by Gatekeeper Security Hubs. These are devices that facilitate the connection and management of a large number of Gatekeeper Sentries. Each hub can supply power and network services to up to sixteen Sentries.

Figure 1: Structured and unstructured Gatekeeper topology's.



Gatekeeper Sentries

Access control is provided by Gatekeeper Sentries. Each Sentry is, effectively, a computer in its own right. The Sentry consists of a plastic or metal enclosure with four mounting screws, with which it is fixed to the wall. Access codes are entered via a sixteen-key keypad; information such as the current date and time are shown on a backlit liquid crystal display.

Figure 2: A Gatekeeper Sentry.



Each Sentry has a range of built-in features, in addition to a suite of expansion options. Ports are provided for connecting external sirens, motion sensors, fire detectors, analogue devices, touch key receptacles and swipe card readers. Internal plug-in cards have also been designed that interface to smart card readers and analogue video surveillance cameras. Each Sentry includes protected, on-board high-current device drivers, eliminating the need for so-called "driver boards" prevalent in other systems.

Figure 3: Sentry peripherals



Powerful Distributed Database

Each Sentry maintains a local database of users and preferences. The database is non-volatile flash memory, so the Sentry may be shut down without loss of information. Since the database is local, network interruptions are not noticeable to the end user.

Each user may have their access restricted to specific days of the week or even specific times of the day, measured in half-hour blocks. Users may be tagged with an expiry date, or optionally may expire after a certain number of uses. Users may also be marked to expire after a specified amount of idle time, and can be forced to change their password after a pre-determined time interval.

Table 1: Database Capacity

Item	Capacity
Users	16,000 per sentry
Conferences	600 pre-scheduled facility bookings
Public Holidays	140 full-day or half-day holidays

Access Technology

Many different access technologies are provided (table 2). Any single user may be assigned keypad access plus one other technology.

Table 2: Access Technologies

Technology	Status
Keypad	Built-in
Infra-red	Built-in
Magnetic swipe card	Optional
Touchkey	Optional
Proximity identification	Optional
Smart card	Optional

In addition to straightforward door access, each user may be granted control over any combination of the following:

- Door locking behaviour
 - permanently lock
 - permanently unlock
 - unlock by time
 - unlock for current day
- Overhead lighting control
 - lights on
 - lights off
 - toggle lights

