

Key Points

- Voice monitoring
- 2 different timeout settings (Fast/Slow), switchable
- Up to 1.25kW power switching capability (can be selected or control a larger system with all the electrical appliances attached to it)
- Can fit in a UK style plug

Technical Facts

- ARM M0+ MCU at 48MHz
- 10K RAM
- 47K Flash

Power Consumption

- Scalable using parameters
- Less than 0.5mA

The QM1 Voice Controller



Main Features

- Miniature (0.6x1.13 inches)
- Low power
- Includes microphone & amplifier
- Developer friendly

Voice Presence Detector

Quantimetrica's QM1 can function as a voice presence detector, allowing the user to switch off attached devices after a time of voice inactivity (e.g. no human presence) to save energy and/or prevent house fires from heating elements.

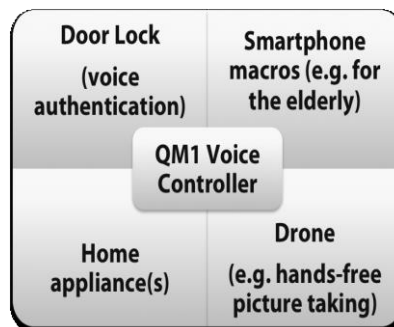
Voice Trigger

Alternatively, using a software update, QM1 can enable/disable attached devices using specific trigger words.

Controlling nearby devices by voice

Enter a new ecosystem of voice controlled devices with the portable Bluetooth enabled controller. Short voice trigger words can send strings wirelessly to nearby devices e.g. smartphones, door locks, drones, cameras etc.

Bluetooth radio can be replaced by WiFi, ZigBee, Infrared etc depending on the devices that need to be controlled. Each user can carry their personal voice controller, trained to their own voice.



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Quantimetrica's Smart Plug: in a nutshell



Quantimetrica's SmartPlug monitors speech presence in the vicinity (and as a result human presence) and can switch attached mains operated devices off after a period of inactivity. As a result, devices that have been left on and unattended will switch off automatically. This not only saves energy but prevents potential domestic fires from certain appliances.

The Klitron DIY Door Lock



Main Features and how it operates

- Very sturdy design (6085 Aluminium Alloy)
- Bluetooth 4.1 enabled
- DIY installation (installs in seconds)
- Complete access control
- Backup motor
- Can issue temporary keys (e.g. for maid, babysitter etc)
- Multiple locks can be controlled via RS-485 cabling
- Controlled via
 - Smartphone (iOS/Android)
 - Keyfob (QM1 voice/pushbutton)
 - Serial port

The Klitron lock is user installed on the inside of the door. It can be controlled using a smartphone application (iOS or Android) with all keys encrypted and stored in the cloud. If the user's phone is lost or stolen, they can use any other smartphone to disable the existing locks and issue new ones for security. Furthermore, access can be tied to the user's voice print for extra security.

Every time the door closes, the lock detects that and locks automatically. In emergencies, such as power loss, fire or technical fault, the lock can be programmed to open automatically so that people are not trapped inside.