vistacom PLUS
Audience Response Keypad

We Put The World's Best Audience Response *Technology Right at Your Fingertips.*

As a leader in the audience response industry—and as the company known for "Best in Class" customer service—Vistacom is the ultimate source for everything to do with audience response. Count on us to bring you the latest technologies, help in choosing the best product(s) for your applications, and all the support and training you need to get the most from your purchase.

SPECIFICATIONS FOR THE PLUS KEYPAD

Enclosure

- Compact and rugged ABS blend case
- Dimensions: 5.25" x 2.2" x 1" (133.8 mm x 54.5 mm x 26.5 mm)
- Weight: Approx. 3.9 oz (113 grams) with batteries installed
- Color: 3 tone (off-white, light gray, slate)

User Identification

- Each keypad has an RF device identity ("address") between 1-500 plus an RF base identifier ("channel") between 1-31
  - Addresses may be automatically assigned or preset
- Each keypad also has a unique device serial number
  - Serial numbers are permanent and set at manufacturing
- 'Log-in' function permits secure user registration

User Input

- 19 enamel coated elastomeric keys
  - Ten keys number 0-9 plus an "SYM" key allow entry of simple or sophisticated responses up to 12 characters in length (ex. -1/2*235.067)
  - Three 'soft' keys coordinate with response options shown in the display. The selections include several options for simplified voting (e.g., Yes No, True False, Yes Abs No, etc.)
- Entries can be "speed scored" to 0.05 second (50 millisecond) resolution to identify group response sequence ('fastest finger') during competitive events
- Audible keypress indicator can be enabled/disabled

THE PLUS KEYPAD

- Light, Compact, Rugged
- Easy-to-Use
- 12 Characters-per-Line Liquid Crystal Display
- Multiple Functions are available to conduct surveys, delegate voting, group decision-making, market research, classroom learning, and other advanced applications
- Easily Switch Sessions, Rooms, and Content Tracks on a single keypad
- Convenient Connectivity enables multi-site and distance event participation
- Supports Meetings up to 15,500

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Display

- 2 line liquid crystal display (LCD) echoes user entries and displays messages from the Base Station. LCD features:
  - Electroluminescent backlighting
  - 12 characters per line
  - Status icons to indicate battery level, response type, correct/incorrect response, log-in status, RF link activity, RF signal strength, keypad address #, channel #

RF Technology

- Two-way RF keypad uses eligible license-free/license-exempt frequencies to:
  - Communicate key presses to the Base Station
  - Receive control information and messages from the Base Station
  - Acknowledge keypad transmissions
- Employs Fleetwood-engineered 2.4 GHz frequency-hopping spread spectrum (FHSS) transceivers
  - FHSS offers excellent range, immunity to interference, and signal security
  - Integrated Wi-Fi avoidance feature improves performance in high density wireless environments
- Patented and proprietary radio protocol
  - Creates a secure communications network between keypads and their associated Base Station
  - Permits Reply® systems to operate reliably in the presence of other RF devices (WLANs, PDAs, phones, etc.)
- Integrated error checking discriminates system signals from all other RF traffic to ensure data accuracy and enhance security
- 31 channel identities are available to provide installation flexibility and system expandability
- Internal antenna is protected by the keypad enclosure

Range

- Designed to operate in an indoor area up to 650 ft x 650 ft (200 m x 200 m). A room's geometry, radio propagation characteristics, and proximity to RF interferance can influence the actual range experienced
- Elevating the base station often results in a performance advantage

Capacity

- 500 keypads per Base Station channel identity
  - 31 channels available for 15,500 keypads per room/site

Speed

- Polling rate is 200 keypads per second
  - Multiple base stations may poll simultaneously, permitting collection of up to 15,500 keypads in 3 seconds

Power and Power Management

- Powered by two replaceable alkaline AA batteries (not included)
- Battery life varies according to use. Estimate replacement after approx. 150 hours of operation
- Battery level is indicated on LCD. Also, keypad transmits battery level to the base station

Security

- A proprietary response verification protocol integral to the radio design provides a high degree of signal security
- Frequency-hopping and propriety data communications are additional deterrents to clandestine interception
- Alarm can be enabled to sound when a keypad leaves its base station's coverage zone

Scalability

- Adding keypads to an existing system only requires them to be set to the channel identity of a base station and assigned an available address by either automatic or manual setting

Compliance and Patents

- Regulatory certifications: FCC, IC, CE
- U.S. Patent Numbers Re. 35,449; 5627,357; 6,021,119; 6,665,000
- European Patent Number EP 0 697 773
- Other patents pending

Waranty

- 2 Year Limited Warranty

Base Station

- Compact and programmable interface to your PC
- Controlled by application software
- Dimensions: 6.25" x 2.25" x 5" (159 mm x 57 mm x 126 mm)
- Unit Weight: Approx 9 oz (255 grams)
- Capacity: 500 keypads per channel identity. 31 channels available allows 15,500 keypads per room
- Speed: 200 keypads per second. Multiple base stations may poll simultaneously to collect responses from up to 15,500 keypads in 3 seconds
- Connections: Attaches to the operator's PC by USB or Ethernet connection (USB cable included)
- Primary Power Source: USB. Current draw 70-130mA
- Alternate Power Source: POE ("Power over Ethernet") using midspan and power injector

Does **not** include accessories such as software and carry cases. These additional items are priced separately.

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It's not just the **hardware**, it's the **hard work**.

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