

Keypad

KEY-2.7

Instruction Manual

Integra

Precautions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Never expose the unit to moisture.
7. Suitable only for use Indoors.
8. Only connect specified supply voltages.
9. Connect only to the specified terminals.

For U.S. models

FCC information for User

CAUTION:

The user changes or modifications not expressly approved by the party responsible

for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

For Canadian Models

NOTE: THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

Modèle pour les Canadiens

REMARQUE: CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

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Thank you for purchasing an Integra KEY-2.7 keypad.

Please read this manual thoroughly before making connections and plugging in the unit.

Following the instructions in this manual will enable you to obtain optimum performance from your new keypad.

Please retain this manual for future reference.

Introduction

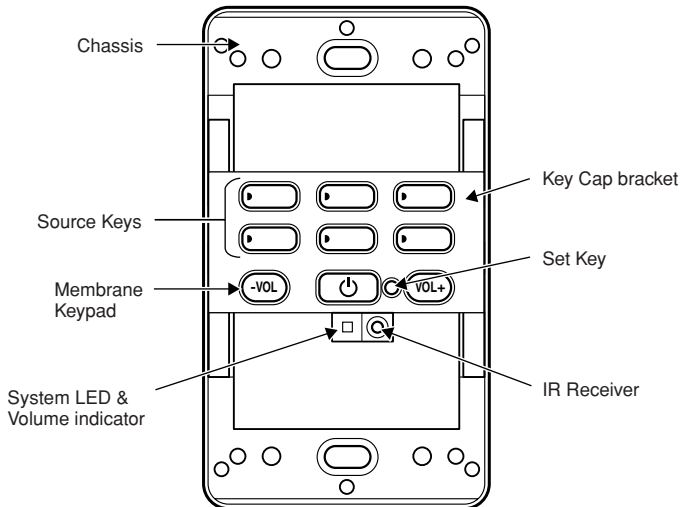
The Integra KEY-2.7 keypad simply controls and provides status feedback of source selection, power, mute and volume of an Integra MZA-4.7 multi-zone amplifier.

The Keypad is programmed manually when connected to the amplifier.

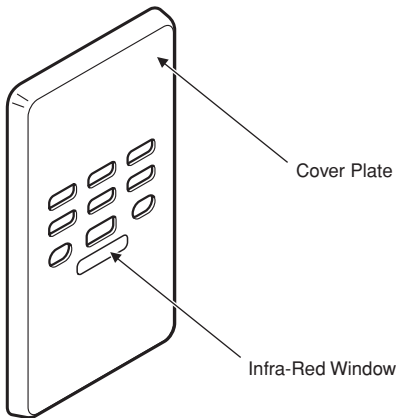
Features

- Standby, Volume Up/Down and 6 Source select keys.
- 32 Source select key-caps providing a selection of Source select key labels.
- Integra Zone setup; 32 zones with Amp or Preamplifier definition.
- Toggling Amp/Preamplifier control function.
- IR receiver (May be defeated).
- Blue Source Select indicators - tracks the amplifier selection, indicates amplifier ON status.
- Volume Level indicated by a full color LED.
- RJ45 crimp plug connection for simple & reliable installation.
- A white cover plate is supplied as standard.

Part Names and Function

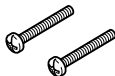


Part Names and Function—Continued



Part Names and Function—Continued

Key Cap Membrane



Flush Box screws



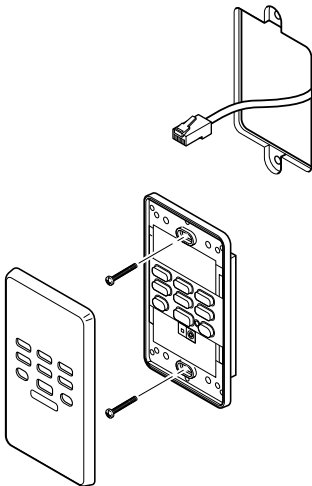
RJ45 Connector



Installation

The KEY-2.7 chassis mounts directly to the wall surface. The following steps outline the installation procedure:

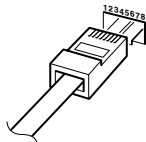
- Cut out the required mounting hole in the wall above the flush-box.
- Terminate a RJ45 plug to the CAT5E cable - see wiring instructions on page 9.
- Connect the RJ45 plug to the KEY-2.7.
- Secure the keypad in position using the supplied flush-box screws.
- Program the keypad (see page 11).
- Select the required Source Key Cap's, and secure in position using the Key Cap Bracket.
- Push the keypad cover plate into position.



System Wiring

CAT5E cable terminated with a RJ45 plug is used to connect to the KEY-2.7.
Use the standard 568-B color code for the CAT5E termination:

Pin #	Wire Color	Keypad function
1	White/Orange	+12V DC supply
2	Orange	0V supply
3	White/Green	IR output
4	Blue	nc
5	White/Blue	Data input
6	Green	0V supply
7	White/Brown	nc
8	Brown	nc



When cabling use CAT5E home runs with a maximum length of 200m.
“Daisy chaining” or parallel connection of up to four keypads per CAT5E cable may be used.

System Wiring—Continued

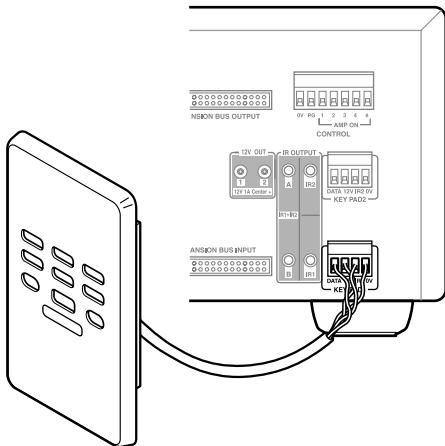
Connecting to an Integra Multi-Zone amplifier MZA-4.7

KEY-2.7 keypads are wired to the MZA-4.7 Interface port.

Integra controllers - keypad's - may be parallel connected.

IR emitters plug into the IR outputs and are fixed to the source equipment's IR windows.

Note: Ports IR1 and IR2 are Interface port specific, while ports IR1+IR2 relay the signals from both interface ports.



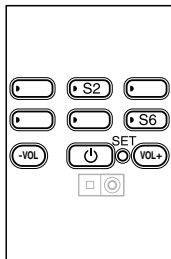
Manual Programming

The SET Key is used along with the Source Keys to put the keypad into various programming modes.

The SET key is pushed first - System LED flashes Green followed by the relevant source or function key.

The functions are:

S2	Integra Mode
S6	Reset
Standby	IR Receiver Toggle
VOL+	Volume Level Indicator Dimming
-VOL	Source Select Indicator Dimming



Manual Programming—Continued

Integra MODE = SET + S2

Push SET followed by the S2 Key to enter Integra mode. The System LED flashes teal.



At the MZA-4.7 turn ON and OFF the zone twice. The keypad detects the amplifier and programs itself to address the zone and device. Integra mode automatically exits.

RESET = SET + S6 + S6

To reset the keypad, push SET followed by two S6 pushes. The System LED will go from RED to GREEN at the completion of the memory wipe.



IR RECIEVER TOGGLE = SET + Standby

The IR receiver is normally disabled. To enable the receiver press SET followed by the Standby Key, the System LED will flash Green/white. Pushing Standby a second time toggles the IR receiver OFF, system LED will flash RED/white. Exit by pushing the SET key.



Manual Programming—*Continued*

SOURCE INDICATOR DIMMING = SET + -VOL

The source indicator brightness may be adjusted: Push SET, then push -VOL to cycle through 25%, 50% and 100% levels. Exit by pushing the SET key.

VOLUME LEVEL INDICATOR DIMMING = SET + VOL+

The Volume Level indicator brightness may be adjusted:

Push SET, then push the VOL+ to cycle through OFF, 50% and 100% levels. Exit by pushing the SET key.

Troubleshooting

No control at all.

- The KEY-2.7 forms just one part of an IR system. There are potential issues with connections, wiring, power supply, IR receiver and emitter placement, plus other optical and EM interference and ground loop possibilities.
- It is best to strip the IR system back to just one controller and debug from there.
- With no IR activity the IR terminal should read 0V - if not then check all wiring and connections, ensure the keypad programming is correct, and the keypad is functioning correctly.

Keypad does not track the MZA-4.7.

- Ensure the data termination has integrity, and is not shorted to other conductors in the CAT5E. Ensure the keypad is correctly zoned.

Specifications

IR receiver

Passthrough of modulated infrared whose carrier frequency is within the range of 32 KHz - 44.1 KHz.

Range: typically 8 m - Dependant on ambient light level, angle of incidence and the remote controls battery condition.

Wiring

Up to 200 m of CAT5E home run cable.

Voltage Current

12 V DC ± 3 V

Typically 25 mA, Max = 60 mA

Dimensions

Cover Plate: Width = 75 mm,

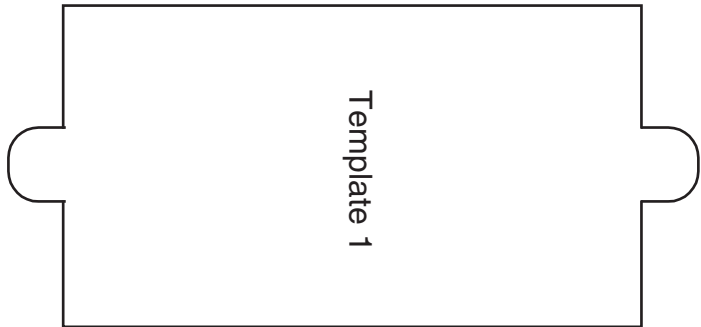
Height = 120 mm,

Depth = 4.6 mm

Depth behind plate = 20 mm

Compliance

ICES-003, FCC.



Template 2

Memo

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