

**SERIES 84LS**  
Sealed, Low Profile

**FEATURES**

- Waterproof Silicone Rubber
- Easily Customized Legends
- Audible, Tactile Contacts
- Low Contact Resistance
- Optional RFI/EMI Shielding
- 3,000,000 Operations per Button

**DESCRIPTION**

The Series 84LS is the low profile version of Grayhill's popular Series 84S sealed keypads. These keypads are legended by epoxy ink printing the rubber key tops. Custom legends and colors are available at a nominal cost. The Series 84LS is offered with a choice of matrix or single pole/common bus circuitries and EMI shielding.



Keyboards and Keypads

**DIMENSIONS** in inches (and millimeters)





### Shielding Effectiveness

Results shown are typical for a standard Grayhill Series 84LS Keyboard. A conductive gasket will generally increase the shielding, depending on the size and shape of the gasket and its material. Data derived for E-Field Radiation.



Frequency MHz	Rating in dB
0.1	66.2
10	94.8
100	89.0
400	70.6
800	42.5
2,000	39.5
6,000	32.6
10,000	45.2
18,000	42.2

the frequency source that was radiated from the transmitting antenna to the enclosed receiving antenna. The spacing between antennas was maintained constant throughout the frequency range. The effectiveness rating is determined by establishing a reference reading without obstruction between the two antennas and determining the difference between that reading and the test setup reading.

**Note:**

When measured in actual equipment, shielding effectiveness is determined by many factors. This method accurately represents the shielding effectiveness of the Grayhill Series 84LS under ideal test conditions.

**Test Method:**

Measurements were made with the keyboard mounted to a brass plate, which in turn was mounted to a shielded enclosure containing the receiving equipment. A signal generator provided

Keyboards and Keypads

### STANDARD LEGENDS

Available through Grayhill Distributors

To order one of the configurations below, use the dash number shown here; select the keypad size and code, and order the part number with the appropriate legend dash number.



-112



-014



-113



-016



-301



-302



-201

### CUSTOM LEGENDS

Any reasonable legend can be printed in the key area. Fax a sketch of your requirements to Grayhill. Printing and symbols will be coordinated in keeping with concepts of good design. Or, if required, the details of your submitted artwork

will be matched as closely as possible. Allow 3 to 4 weeks for custom legend delivery. A nominal charge, depending on the total quantity of keypads ordered and the complexity of the legend, will be assessed.

### HEADER CONNECTORS

**Compatible with:** Samtec, Inc. Header Series BCS, BSW, CES, ESW, ESQ, SLW, SSW, SSS, IDSS and IDSD or equivalent.

### ORDERING INFORMATION

**Grayhill Series Number**  
**Shielded or Non-Shielded Option**  
 S = Shielded  
 SN = Non-Shielded  
**Size Option**  
 A = 3x4 B = 4x4 C = 1x1 F = 1x4  
**Circuitry Option**  
 B2 = Matrix in-line pins C2 = Single pole/common bus, in-line pins

**84LS-AC2-113-N**

**Mounting Nut Option**  
 N = Provided with hex nuts for mounting  
 Blank = Nuts not provided  
**Standard Legend Choices**  
 3x4 Size, choose -112 or -113  
 4x4 Size, choose -014 or -016  
 1x4 Size, choose -301 or -302  
 1x1 Size, choose -201

**Available from your local Grayhill Distributor.** For prices and discounts, contact a local Sales Office, an authorized local distributor or Grayhill.

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