



**HI-TEK**  
CORPORATION

# AT-84 KEYBOARDS

## IBM® PC OR AT PLUG COMPATIBLE

HI-TEK's new AT-84 line of IBM plug-compatible keyboards continues the company's traditional standards of excellence. Over the past 17 years, HI-TEK's product performance and quality have resulted in steady growth to its present position of leadership. Today, three modern automated factories in the U.S. and Asia enable HI-TEK to produce OEM quantities of the new AT-84 as well as other keyboard models on a world-wide basis.

The new AT-84 keyboards are the latest in a family of IBM plug-compatible keyboards which also includes the previously introduced PC-83 and PC-84 models. Designed to meet DIN standards, the AT-84 is available in two versions. One version is plug-compatible with the IBM AT; the other is plug-compatible with the IBM PC or emulating systems. HI-TEK's outstanding R&D and engineering team designed the AT-84 to be the most

advanced keyboard in its class... and it is. The AT-84 line offers all the field-proven features of its popular and reliable predecessors. These features include the patent pending 725 Series keyswitch technology that offers an industry-leading life of 100,000,000 cycles. These new keyboards also incorporate the well-recognized "Right Touch" feel that sets all HI-TEK products apart from their competitors.

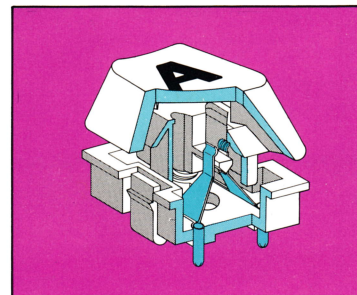
HI-TEK's new AT-84 offers more features, more benefits and higher quality than any other keyboard available. Coupled with excellent product performance, modern automated factories, and very competitive pricing, HI-TEK's leadership in the industry is rapidly expanding. So if it's keyboards you need — either in standard or custom configurations — contact HI-TEK for knowledgeable solutions to your keyboard and data entry requirements.



AT-84 keyboard... quality... reliability... competitive pricing



LED indicators and full width marginal keys



725 Series keyswitch

### FEATURES/BENEFITS

- **725 Series Keyswitch Design** ..... 100,000,000 cycle life, trouble-free operation
- **User Friendly Layout** ..... Return and Shift keys in familiar positions
- **Full Width Marginal Keys** ..... Larger strike surface for easier and more accurate entry
- **LED Indicators** ..... Located on Num Lock, Scroll Lock and Caps Lock keyswitches for quick identification of shift status
- **IBM PC or AT Models** ..... Two output versions which plug directly into either IBM PC or AT systems
- **Legends Upper Left Justified** ..... Easy-to-see legends
- **Sublimation Printed Keycaps** ..... Consistent high quality, easy-to-read legends, superior durability
- **Retractable Legs** ..... Adjust keyboard angle for maximum comfort

### OPTIONS

- Linear or Tactile Keyswitches
- N-key or Multi-key Rollover
- Shielded Cables, DIN Standard or Modular
- Mouse Interface
- 6' or 10' Coiled Cable Lengths



# AT-84 KEYBOARD SPECIFICATIONS

## MECHANICAL

### Enclosure Material

Injection Molded Thermoplastics. UL flammability rating 94 HB.

### Keycap Material

Polyester Thermoplastics. UL flammability rating 94 HB.

### Enclosure Color

Similar to Sherwin and Williams Polane Driftwood F63A40.

### Keycap Colors

Medium Grey equivalent to Borg Warner color T33309 and Pearl White equivalent to Borg Warner color T22061.

## FUNCTIONAL

### Auto Repeat

If a key is held down, the keyboard will continuously output the character 10 times per second after a delay of 0.5 second.

### Locking Functions

LED indicators are found in the Num Lock, Caps Lock and Scroll Lock keys to indicate the mode of the keyboard. The LED indicators are controlled by the system.

### N-Key Rollover

The keyboard features N-key rollover. If keys are sequentially depressed, the keys will be processed in the order of depression regardless of the numbers of keys held down. Multi-key rollover is also available.

### Buffering

The keyboard will buffer up to 16 keys when the system is unable to receive scan codes from the keyboard. The key-strokes are stored in a first-in-first-out (FIFO) buffer.

### Input-Output Data Logic Level

Data input and output is standard TTL logic level. Output will drive 3 standard TTL loads. Input loading is 1000 ohms.

## ELECTRICAL

### Switch Contact System

SP ST normally open (Form A).

### Input Voltage

4.75 to 5.25 VDC

### Input Current

300 milliamperes maximum.

## ELECTRICAL (cont.)

### Case Ground

The metal stiffener panel is grounded to chassis ground.

### Temperature

Operating: +32°F to +131°F (0°C to +55°C)  
Storage: -40°F to +149°F (-40°C to +65°C)

### Relative Humidity

0 to 95 percent

### Electromagnetic Compatibility

The keyboard has been tested for and has passed the EMI requirements of a Class B device.

### Electrostatic Discharge

During testing for resistance to damage from electrostatic discharge by an independent testing agency, the keyboards withstood repeated ESD of up to 20 KV.

## KEYSWITCH SPECIFICATIONS

### MECHANICAL

#### Contact Material

Spring temper phosphor bronze with gold alloy inlay.

#### Keyswitch Travel

.140  $\pm$  .020 inch (3.56  $\pm$  .5 mm)

#### Travel to Make

0.70  $\pm$  .020 inch (1.78  $\pm$  .5 mm)

#### Operating Force

Momentary Action: 2.0  $\pm$  0.5 oz. (57.1  $\pm$  14.2 grams)  
Space Bar: 3.0  $\pm$  0.5 oz. (85.6  $\pm$  14.2 grams)

#### Feel

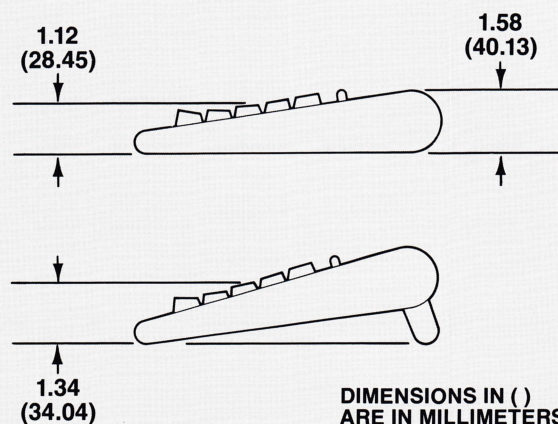
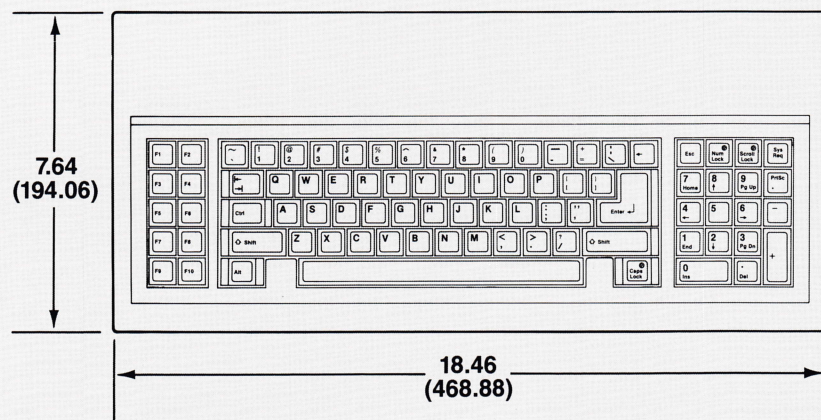
Basic switch has either linear or tactile feel.

#### Wobble

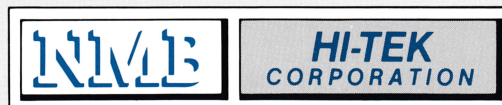
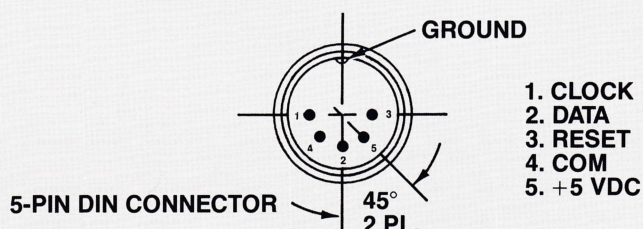
Lateral movement will not exceed .02 inch (.5 mm) in either axis.

#### Life

100 million cycles.



DIMENSIONS IN ( )  
ARE IN MILLIMETERS



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