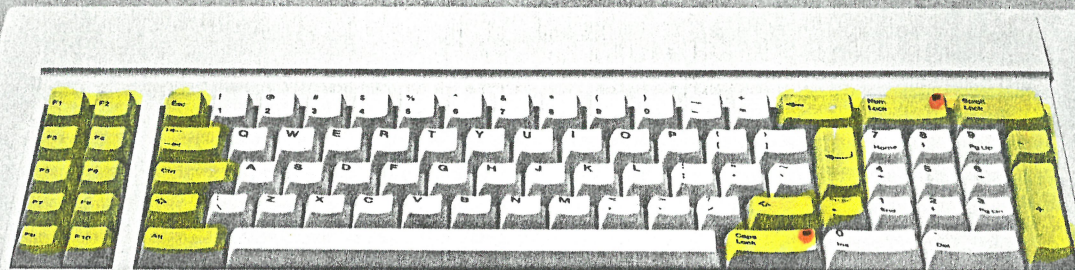# OAK

IBM PC WORK-ALIKE I AND II

Work-Alike I

THE DIFFERENCE IS OAK!

For The IBM* PC Work-Alike Keyboard With Proven Membrane Technology, Superior Fall-Through Tactile Feel and Unparalleled Performance and Value, Ask Oak.

FEATURES

S-2800

- Front Sealed
- 75 Million Cycle Life
- RFI/EMI Shielded
- Exceptional Aesthetics and Feel
- Enclosure and Cable Included
- Dimensions
  Length: 22 inches
  Height: 1.45 inches max. ht.
  Depth: 8.6 inches
  Weight: 4.25 pounds

- Oak Standard Product
- Synchronous and Asynchronous Serial Outputs
- 83 Keys (WAL I) or 84 Keys (WAL II)

Plus These Work-Alike II Features
- Enter Key
- Horizontal "Return" Key
- "SHIFT" Legend on Shift Key
- "TAB" Legend on Tab Key

The big difference between Oak keyboards and other manufacturers' is Oak! And now, the Oak difference can go to work for you, in your special application, large or small volumes, with the Oak IBM work-alike keyboard!

More than just another IBM work-alike, this keyboard features advanced, cost-effective membrane technology for life cycles in excess of 75 million; a choice of either 83 or 84 positions; patented key-switch designs that offer you the choice of standard linear or fall-through tactile feel; environmental protection; light weight... and more!

And, as always, you can count on Oak for commitment to quality, value and service.

Ask Oak for your large volume needs. For smaller volumes we'll give you the name of your nearest authorized Oak distributor. Either way, you'll see why an Oak IBM work-alike keyboard is the right one for your special application.

Oak has combined the benefits of time tested membrane technology, advanced keyswitch design and a popular 83 or 84 position key layout in an encoded, enclosed and cabled, ready to use keyboard—The Oak IBM Work-Alike.

Work-Alike II

THE SHAPE OF QUALITY, PERFORMANCE AND VALUE: OAK'S LOW-PROFILE FTM® KEYBOARDS

SPECIFICATIONS

Environmental

Operating Temperature: 0° C (32° F) to 65° C (149° F).

Storage Temperature: -40° C (-40° F) to 85° C (185° F).

Humidity (steady state): Passes Mil-Std 202 METHOD 103 Humidity test-95% RH, non-condensing.

Moisture Resistance: Passes 24 cycles, 0° C to 50° C, maintaining 95% RH and full operating keyboard.

Contamination: Product is front surface sealed against dust, dirt, and spilled liquids such as coffee, soda and water.

Altitude: Tested to 60,000 feet.

Shock: 100 G, 11 milliseconds, half sine.

Mechanical

Number of Positions: 83—Work-Alike I 84—Work-Alike II.

Switch Action: Momentary.

LEDs: Visible under direct fluorescent light and at a distance of four (4) feet at an angle of 65° from vertical.

Keyboard Weight (typically): In enclosure, with coil cord; 1580 grams.

Total Plunger Travel:

0.150 $^{+0.000}_{-0.010}$ inches (3.81 $^{+0.00}_{-0.25}$ mm)

Plunger Pre-travel: 0.080 ±0.020 inches (2.03 ±0.51 mm).

Switch Life: 75 million cycles minimum per key.

Force at Make: 1.9 ±0.2 ounces (53.2 ± 5.6 grams).
3.2 oz. for space bar.

Encoder Features

Power: +5VDC ±5% @280 ma. max.
Encoding: Asynchronous

Seven modes—unshift, shift, control, shift-control, caps lock, alternate and numeric lock.
Interface—serial at 150, 300, 600, 1200, 2400, 4800 and 9600 baud. One (1) start bit, eight (8) data bits and two (2) stop bits.
RS422A type with data—and data +.

Synchronous

Up/down coded.
Interface—IBM PC compatible.

Cabling: Five (5) pin DIN connector.

Auto Repeat: 10 CPS after initial 500 ms. delay.

Buffer: Sixteen (16) bytes.

External Reset: 50 ms. low pulse required (quiescent high).

"Caps Lock" Key: Causes the alphabet section of the keyboard to be shifted to the capital letter mode (in asynchronous mode only). LED will light in both modes. This is a push-push operation (electronic lock).

"Num Lock" Key: Causes the numeric/ cursor control pad to output the numeric codes for the respective keys (in asynchronous mode only). LED will light in both modes. This is a push-push operation (electronic lock).

"SHIFT" Keys: Causes keys controlled by CAPS LOCK and NUMERIC LOCK to switch to mode opposite of the LOCK key state. All other keys switch to shifted state (in asynchronous mode only). Example: Numeric Lock ON, shift key depressed and INS key on keyboard depressed. Output is INS.

"Alt" Key: Causes the parity bit (b7) to be set to a mark (in asynchronous mode only—coded key in synchronous mode).

RFI/EMI: Certified class B FCC Part 15-J. The software utilizes OAK's patented ENTRY ERROR ELIMINATION routine (Pat. No. 4,420,744) which detects and eliminates PHANTOM key codes. The software also provides a multi-key rollover.

All specifications, unless otherwise specified, are at an ambient temperature of 25° C ±5° C, 30%-70% RH, and 760±20mm Hg atmospheric pressure.

ASK ABOUT THESE OTHER OAK STANDARD COMPATIBLE KEYBOARDS

- **VT220**
- **3270 PC/XT**
- **AT**

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OAK Switch Systems Inc.
Keyboard Products Division
P.O. Box 517 • Crystal Lake, Illinois 60014
Phone 815/459-5000 • TWX 910-634-3353 • TELEX 72-2447

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