



Hope Industrial Systems, Inc.

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Data Sheet: Industrial Keyboards NEMA 4/4X, IP65/IP66

Product Description

Hope Industrial Systems' line of Industrial Keyboards is designed to provide the industrial user with rugged options to complete their workstations. We offer a variety of enclosures and keypads to suit each user's need. Each keyboard is sealed to NEMA 4/4X, IP65/66 standards for wash-down environments and includes our standard industry-leading 4-year warranty.

Optional features include short and full travel keypads, button pointers and touchpads, rugged stainless or black powder-coated steel enclosures, and a variety of enclosure form factors.

Industrial Keyboard Features

- ▶ Wide variety of keypad and enclosure options
- ▶ Integrated touchpad or button pointer
- ▶ UL Rated for Class I, II, III, Division 2 Hazardous Locations
- ▶ NEMA 4X stainless or NEMA 4 carbon steel (IP65/IP66 wash-down sealed)
- ▶ Full 4-year warranty on all components

Keyboard Enclosure Form Factor Options

- ▶ Monitor-Mounted (KB-EXT series) - for use with Hope Universal Mount Monitors
- ▶ Benctop (KB-BCH series) - flexible design for easy relocation and use on any flat surface
- ▶ Flush Panel Mount (KB-P90 series) - for flush mounting in any panel using a single cutout
- ▶ Folding Wall Mount (KB-WMT series) - with two typing positions and two storage positions
- ▶ Fixed Wall Mount (KB-W35 series) - space-saving design for low-profile installations



Monitor-Mounted Full-Travel Keyboard with Touchpad



Panel Mount Short-Travel Keyboard with Touchpad



Folding Wall Mount Keyboard (left) and Fixed Wall Mount Keyboard (right)



Full-Travel Keypad with Touchpad (R3 models)



Full-Travel Keypad with Button Pointer (R2 models)



Short-Travel Keyboard with Touchpad (M2 models)

| Keypad Style | Full-Travel with Touchpad (R3) | Full-Travel with Button Pointer (R2) | Short-Travel with Touchpad (M2) |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------|
| Keypad | | | |
| Keys | 113-key functionality with numeric keypad and 20 function keys | | 102-key functionality with numeric keypad and 24 function keys |
| Overlay | Silicone overlay with long-travel keys | | Polyester membrane with short-travel keys; chemical, abrasion, and scratch resistant |
| Key Material | Industrial silicone rubber | | OMRON mechanical switches |
| Key Switch Force / Travel | 0.45 lb. (2.0 N) / 2.5 mm (0.098") | | 0.59 lb. (2.6 N) / 0.3 mm (0.012") |
| Key Switch Life | 10 million cycles | | 3 million cycles |
| Computer Connection | | | |
| Connection | Single USB type A | | |
| Cable Length | -BCH, -P90, and -W35 models: 4.6 m (15') -WMT models: 3.8 m (12.5') | | |
| Pointing Device | | | |
| Integrated Pointing Device | Capacitive Touchpad Resolution: 40 counts / mm | Button Pointer Technology: Hall effect sensor | Capacitive Touchpad Resolution: 40 counts / mm |
| Use with Gloves | Compatible with thin gloves | Compatible with all gloves | Compatible with thin gloves |
| Environmental | | | |
| NEMA Rating | Stainless steel models: sealed to NEMA 4X, IP65/IP66 standards Black powder-coated carbon steel models: sealed to NEMA 4, IP65/IP66 standards | | |
| Operating Temperature | -20° to 60°C (-4° to 140°F) | | |
| Storage Temperature | -40° to 70°C (-40° to 158°F) | | -40° to 90°C (-40° to 194°F) |
| Physical | | | |
| Dimensions (W x H x D) | -BCH models: 416.6 mm x 206.6 mm x 63.5 mm (16.40" x 8.14" x 2.50") -EXT models: 416.6 mm x 193.4 mm x 50.8 mm (16.40" x 7.62" x 2.00") (thickest dimension at base; narrows to 1") -P90 models: 444.5 mm x 228.6 mm (17.50" x 9.00"); depth behind front of panel: 30.9 mm (1.21") maximum -W35 models: 416.6 mm x 233.7 mm x 58.4 mm (16.40" x 9.20" x 2.30") (thickest dimension at base; narrows to 1") -WMT models: 416.6 mm x 200.7 mm x 50.8 mm (16.40" x 7.90" x 2.00") (thickest dimension at base; narrows to 1") | | |
| Mounting Pattern (W x H) | -P90 models: 416.1 mm x 200.7 mm (16.38" x 7.90") -W35 models: 355.6 mm x 36.7 mm (14.00" x 1.44") -WMT models: 508.05 mm x 76.2 mm (20.00" x 3.00") | | |
| Mounting Footprint (W x H) | -P90 models: 444.5 mm x 228.6 mm (17.50" x 9.00") -W35 models: 416.6 mm x 58.7 mm (16.40" x 2.31") -WMT models: 536.2 mm x 101.6 mm (21.10" x 4.00") | | |
| Weight | -BCH models: 2.7 kg (5.85 lbs.) -EXT, -W35, -WMT models: 3.2 kg (7 lbs.) -P90 models: 2.8 kg (6.25 lbs.) | | |
| Compliances and Certifications | | | |
| Electrical | UL 60950 3rd Edition / cUL Listed Product, CE, FCC Class A | | |
| Environmental | WEEE | | |
| Hazardous Locations | I.T.E. for Class I, II, III, Division 2 for Groups A, B, C, D, F, G; Temp Code T5 or T4A (file No. E334953) per ANSI/ISA-12.12.01-2015 and CAN/CSA C22.2 No. 213-15 | | |
| Warranty | 4-year warranty | | |

About Hope Industrial Systems

Hope Industrial Systems manufactures and markets industrial monitors and touch screens that have superior quality and up-to-date features housed in a variety of rugged enclosures. We assure our customers of high reliability over time and back it up with an industry-leading warranty. We provide all of these benefits at a price that is significantly less than comparable industrial offerings. Finally, we offer the best sales, support and service in the industry:

- ▶ 4-year limited warranty on all monitors
- ▶ 24-48-hour repair turnaround (most models)
- ▶ Same day shipment lead time (most models)
- ▶ 30-day money-back guarantee