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 5-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 5-year warranty on all components

Keyboard Enclosure Form Factor Options

▶ Monitor-Mounted (KB-EXT series) - for use with Hope Universal Mount Monitors
▶ Benchtop (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)
Humidity	20% to 90% non-condensing		
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	5-year warranty		

About Hope Industrial Systems

Hope Industrial Systems manufactures and markets industrial monitors and touch screens with 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:

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