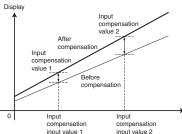
Temperature Indicator K3HB-H

New High-speed, High-precision Temperature Indicator

- Visual confirmation of judgement results through display colors that switch between red and green. *1
- Capable of high-speed sampling at 50 times per second (20 ms).
- High-resolution of 0.01°C with platinum-resistance thermometer Pt100 input. Thermocouple sensor inputs also support a resolution of 0.1°C for all ranges.

Input

Temperature input shift is easily set using two points.



- Series expanded to include DeviceNet models. *2
- UL certification approval (Certification Mark License).
- CE Marking conformance by third party assessment body.
- Water-resistant enclosure conforms to NEMA 4X (equivalent to IP66).
- *1 Visual confirmation of judgement results is not supported on models that do not have an output or models that do not support DeviceNet. You can change the display color by setting it, but you cannot switch it based on the
- udgement results *2 DeviceNet models have a depth of 97 mm

Refer to Safety Precautions for All Digital Panel Meters.

Model Number Structure

Model Number Legend

Base Units and Optional Boards can be ordered individually or as sets. **Base Units**

K3HB-H	
1	5

1. Input Sensor Code

TA: Temperature input Thermocouple input/Platinum-resistance thermometer input

5. Supply Voltage

100-240 VAC: 100 to 240 VAC 24 VAC/VDC: 24 VAC/VDC

Optional Boards

Sensor Power Supply/Output Boards

K33-🗌 2

Relay/Transistor Output Boards

K34-

Event Input Boards

K35-🗌

- Note: The following combinations are not possible.
 Communications (FLK□A) + DeviceNet (DRT)
 Communications (FLK□A) + BCD output (BCD)
 Linear current/voltage (L□A) + DeviceNet (DRT)

Base Units with Optional Boards

K3HE	3-H ⊡-			
	1	2	34	5

- 2. Sensor Power Supply/Output Type Code
- None: None
- None: None
 CPA: Relay output (PASS: SPDT) + Sensor power supply (12 VDC +/-10%, 80 mA) (See note 1.)
 L1A: Linear current output (0 to 20 or 4 to 20 mA DC) + Sensor power supply (12 VDC +/-10%, 80 mA) (See note 2.)
 L2A: Linear voltage output (0 to 5, 1 to 5, or 0 to 10 VDC) + Sensor power supply (12 VDC +/-10%, 80 mA) (See note 2.)
 A: Sensor power supply (12 VDC +/-10%, 80 mA)
 FLK1A: Communications (RS-232C) + Sensor power supply (12 VDC +/-10%, 80 mA) (See note 2.)
 FLK3A: Communications (RS-485) + Sensor power supply (12 VDC +/-10%, 80 mA) (See note 2.)
- Note: 1.
 - CPA can be combined with relay outputs only. Only one of the following can be used by each Digital Indicator: RS-232C/ RS-485 communications, a linear output, or DeviceNet communications. 2.

3. Relay/Transistor Output Type Code

- None: None
- C1:
- Relay contact (H/L: SPDT each) Relay contact (HH/H/LL/L: SPST-NO each) C2:
- Transistor (NPN open collector: HH/H/PASS/L/LL) Transistor (PNP open collector: HH/H/PASS/L/LL) T1:
- T2 BCD *: BCD output + transistor output (NPN open collector: HH/H/PASS/L/LL) DRT: DeviceNet (See note 2.)
- * A Special BCD Output Cable (sold separately) is required.

4. Event Input Type Code None: None

- 5 inputs (M3 terminal blocks), NPN open collector

- S inputs (10-pin MIL connector), NPN open collector
 S inputs (M3 terminal blocks), PNP open collector
 S inputs (M3 terminal blocks), PNP open collector
 4*: 8 inputs (10-pin MIL connector), PNP open collector
 * There is no bank selection for "None" and "DeviceNet" types of "Transistor
 Output Type Code Output Type Code".



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

1

(€)

Accessories (Sold Separately)

K32-DICN: Special Cable (for event inputs, with 8-pin connector) K32-BCD: Special BCD Output Cable

Watertight Cover

	Model	
Y92A-49N		

Rubber Packing

Model

K32-P1

Note: Rubber packing is provided with the Controller.

Specifications

■ Ratings

Power supply volta	ige	100 to 240 VAC (50/60 Hz), 24 VAC/VDC, DeviceNet power supply: 24 VDC				
Allowable power s	upply voltage range	85% to 110% of the rated power supply voltage, DeviceNet power supply: 11 to 25 VDC				
Power consumptio (See note 1.)	n	100 to 240 V: 18 VA max. (max. load) 24 VAC/DC: 11 VA/7 W max. (max. load)				
Current consumpt	ion	DeviceNet power supply: 50 mA max. (24 VDC)				
Input		Platinum-resistance thermometer: Pt100 Thermocouple: K, J, T, E, L, U, N, R, S, B, W				
A/D conversion me	ethod	Delta-Sigma method				
External power sup	oply	See Sensor Power Supply/Output Type Codes				
Event inputs (See note 2.)		NPN open collector or no-voltage contact signal ON residual voltage: 3 V max. ON current at 0 Ω: 17 mA max. Max. applied voltage: 30 VDC max. OFF leakage current: 1.5 mA max.				
	Startup compensa- tion timer input	NPN open collector or no-voltage contact signal ON residual voltage: 2 V max. ON current at 0 Ω : 4 mA max. Max. applied voltage: 30 VDC max.				
	Hold input					
	Reset input	OFF leakage current: 0.1 mA max.				
Bank input						
Output ratings Relay output (depends on the		250 VAC, 30 VDC, 5 A (resistive load) Mechanical life expectancy: 5,000,000 operations, Electrical life expectancy: 100,000 operations				
model)	Transistor output	Maximum load voltage: 24 VDC, Maximum load current: 50 mA, Leakage current: 100 µA max.				
Linear output		Linear output 0 to 20 mA DC, 4 to 20 mA DC: Load: 500 Ω max, Resolution: Approx. 10,000, Output error: ±0.5% FS Linear output 0 to 5 VDC, 1 to 5 VDC, 0 to 10 VDC: Load: 5 k Ω max, Resolution: Approx. 10,000, Output error: ±0.5% FS (1 V or less: ±0.15 V; not output for 0 V or less)				
Display method	·	Negative LCD (backlit LED) display 7-segment digital display (Character height: PV: 14.2 mm (green/red); SV: 4.9 mm (green)				
Main functions		Temperature input shift, measurement operation selection, averaging, previous average value comparison zero-limit, output hysteresis, output OFF delay, output test, display value selection, display color selection, k protection, bank selection, display refresh period, maximum/minimum hold, reset				
Ambient operating temperature		-10 to 55°C (with no icing or condensation)				
Ambient operating humidity		25% to 85%				
Storage temperatu	re	-25 to 65°C (with no icing or condensation)				
Altitude		2,000 m max.				
Accessories		Watertight packing, 2 fixtures, terminal cover, unit stickers, instruction manual. DeviceNet models also include a DeviceNet connector (Hirose HR31-5.08P-5SC(01)) and crimp terminals (Hirose HR31-SC-121) (See note 3.)				

Note: 1. DC power supply models require a control power supply capacity of approximately 1 A per Unit when power is turned ON. Particular attention is required when using two or more DC power supply models. The OMRON S8VS-series DC Power Supply Unit is recommended.
 PNP input types are also available.
 For K3HB-series DeviceNet models, use only the DeviceNet Connector included with the product. The crimp terminals provided are for Thin Cables.

■ Characteristics

Display range		-19,999 to 99,999				
Accuracy (at 23:	±5°C)	Thermocouple input: ($\pm 0.3\%$ PV or $\pm 1^{\circ}$ C, whichever is larger) ± 1 digit max. (See note.) Platinum resistance thermometer input: ($\pm 0.2\%$ PV or $\pm 0.8^{\circ}$ C, whichever is larger) ± 1 digit max.				
Sampling period		20 ms (50 times/second)				
Comparative ou	tput response time	Platinum-resistance thermometer input range: 120 ms max. Thermocouple input range: 180 ms max. (The time until the comparative output is output when there is a forced sudden change in the input signal from 15% to 95% or 95% to 15%.)				
Linear output re	sponse time	Platinum-resistance thermometer input range: 170 ms max. Thermocouple input range: 230 ms max. (The time until the final analog output is reached when there is a forced sudden change in the output signal from 15% to 95% or 95% to 15%.)				
Insulation resist	ance	20 MΩ min. (at 500 VDC)				
Dielectric streng	jth	2,300 VAC for 1 min between external terminals and case				
Noise immunity		 100 to 240 VAC models: ±1,500 V at power supply terminals in normal or common mode (waveform with 1-ns rising edge and pulse width of 1 μs/100 ns) 24 VAC/VDC models: ±1,500 V at power supply terminals in normal or common mode (waveform with 1-ns rising edge and pulse width of 1 μs/100 ns) 				
Vibration resista	ance	Frequency: 10 to 55 Hz; Acceleration: 50 m/s ² , 10 sweeps of 5 min each in X, Y, and Z directions				
Shock resistanc	e	150 m/s ² (100 m/s ² for relay outputs) 3 times each in 3 axes, 6 directions				
Weight		Approx. 300 g (Base Unit only)				
	Front panel	Conforms to NEMA 4X for indoor use (equivalent to IP66)				
tection Rear case		IP20				
	Terminals	IP00 + finger protection (VDE0106/100)				
Memory protect	ion	EEPROM (non-volatile memory) Number of rewrites: 100,000				
Applicable stand	dards	UL61010-1, CSA C22.2 No. 61010-1-04 EN61010-1 (IEC61010-1): Pollution degree 2/Overvoltage category II EN61326-1				
EMC		EMI: EN61326-1 Industrial electromagnetic environment Electromagnetic radiation interference CISPR 11 Group 1, Class A Terminal interference voltage CISPR 11 Group 1, Class A EMS: EN61326-1 Industrial electromagnetic environment Electrostatic Discharge Immunity EN61000-4-2: 4 kV (contact), 8 kV (in air) Radiated Electromagnetic Field Immunity EN61000-4-3: 10 V/m 1 kHz sine wave amplitude modulation (80 MHz to 1 GHz, 1.4 to 2 GHz) Electrical Fast Transient/Burst Immunity EN61000-4-4: 2 kV (power line), 1 kV (I/O signal line) Surge Immunity EN61000-4-5: 1 kV with line (power line), 2 kV with ground (power line) Conducted Disturbance Immunity EN61000-4-6: 3 V (0.15 to 80 MHz) Power Frequency Magnetic Immunity EN61000-4-8: 30 A/m (50 Hz) continuous time Voltage Dips and Interruptions Immunity EN61000-4-11: 0.5 cycle, 0°/180°, 100% (rated voltage)				

Note: K, T, N (-100° C or less): $\pm 2^{\circ}$ C ± 1 digit max. U, L: $\pm 2^{\circ}$ C ± 1 digit max. B (400°C max.): Nothing specified. R, S (200°C max.): $\pm 3^{\circ}$ C ± 1 digit max. W: ($\pm 0.3^{\circ}$ PV or $\pm 3^{\circ}$ C whichever is larger) ± 1 digit max.

КЗНВ-Н

■ Input Ranges

Platinum-resistance Thermometer/Thermocouple

Input ty	pe		num- tance ometer		Thermocouple											
Name		Pt1	100	ŀ	K J		Т	E	L	U	N	R	S	В	W (W/Re 5-26)	
Connect terminal		Ē4) — Ē	5 – 6							E5 – E6	>					
Tem- pera-	2300												1700.0	1700.0	1800.0	2300.0
ture range	1800			1300.0								1300.0				_
(°C)	1300 900	850.0				850.0				850.0						
	800															
	700				500.0				000.0				_			
	600				500.0		400.0	400.0	600.0	<u> </u>	400.0				┣─ ─	
	400		150.00				400.0	400.0			400.0					
	200		130.00							<u> </u>						
	100														100.0	
	0								0.0				0.0	0.0		0.0
	-100				-20.0	-100.0	-20.0			-100.0						
	-200	-200.0	-150.00	-200.0				-200.0			-200.0	-200.0				
Setting	code	0-PE	1-PE	2-2	3-2	4-3	5-J	8-5	7-8	8-L	9-U	10-n	11	12-5	13-6	14-7
Minimur setting u (compar set value	unit rative	0.1°C	0.01°C							0.1°C						

The range shown in dark shading indicates the factory setting.

Celsius/Fahrenheit Correlation Values and Setting/Specified Ranges

Input type	Setting	j range	Indicatio	on range
	°C	°F	°C	°F
Pt100 (1)	-200.0 to 850.0	-300.0 to 1500.0	-305.0 to 955.0	-480.0 to 1680.0
Pt100 (2)	-150.00 to 150.00	-199.99 to 300.00	-180.00 to 180.00	-199.99 to 350.00
K (1)	-200.0 to 1300.0	-300.0 to 2300.0	-350.0 to 1450.0	-560.0 to 2560.0
K (2)	-20.0 to 500.0	0.0 to 900.0	-72.0 to 552.0	-90.0 to 990.0
J (1)	-100.0 to 850.0	-100.0 to 1500.0	-195.0 to 945.0	-260.0 to 1660.0
J (2)	-20.0 to 400.0	0.0 to 750.0	-62.0 to 442.0	-75.0 to 825.0
Т	-200.0 to 400.0	-300.0 to 700.0	-260.0 to 460.0	-400.0 to 800.0
E	0.0 to 600.0	0.0 to 1100.0	-60.0 to 660.0	-110.0 to 1210.0
L	-100.0 to 850.0	-100.0 to 1500.0	-195.0 to 945.0	-260.0 to 1660.0
U	-200.0 to 400.0	-300.0 to 700.0	-260.0 to 460.0	-400.0 to 800.0
N	-200.0 to 1300.0	-300.0 to 2300.0	-350.0 to 1450.0	-560.0 to 2560.0
R	0.0 to 1700.0	0.0 to 3000.0	-170.0 to 1870.0	-300.0 to 3300.0
S	0.0 to 1700.0	0.0 to 3000.0	-170.0 to 1870.0	-300.0 to 3300.0
В	100.0 to 1800.0	300.0 to 3200.0	-70.0 to 1970.0	10.0 to 3490.0
W	0.0 to 2300.0	0.0 to 4100.0	-230.0 to 2530.0	-410.0 to 4510.0

Common Specifications

Event Input Ratings

Input type	S-TMR, HOLD, RESET, BANK1, BANK2, BANK4	TIMING
Contact	ON: 1 k Ω max., OFF: 100 k Ω min.	
	OFF leakage current: 0.1 mA max. Load current: 4 mA max.	ON residual voltage: 3 V max. OFF leakage current: 1.5 mA max. Load current: 17 mA max. Maximum applied voltage: 30 VDC max.

Output Ratings

Contact Output

Item	Resistive loads (250 VAC, cosథ=1; 30 VDC, L/R=0 ms)	Inductive loads (250 VAC, closed circuit, cos∳=0.4; 30 VDC, L/R=7 ms)
Rated load	5 A at 250 VAC 5 A at 30 VDC	1 A at 250 VAC 1 A at 30 VDC
Mechanical life expectancy	5,000,000 operations	
Electrical life expectancy	100,000 operations	

Transistor Output

Maximum load voltage	24 VDC
Maximum load current	50 mA
Leakage current	100 μA max.

Linear Output

Item	0 to 20 mA	4 to 20 mA	0 to 5 V	1 to 5 V	0 to 10 V		
Allowable load impedance	500 Ω max.		5 kΩ min.				
Resolution	Approx. 10,000						
Output error	±0.5%FS ±0.5%FS (1 V or less: ±0.15 V; not output for 0 V or less)						

Serial Communications Output

Item	RS-232C, RS-485
Communications method	Half duplex
Synchronization method	Start-stop synchronization
Baud rate	9,600, 19,200, or 38,400 bps
Transmission code	ASCII
Data length	7 bits or 8 bits
Stop bit length	2 bits or 1 bit
Error detection	Vertical parity and FCS
Parity check	Odd, even

Note: For details on serial and DeviceNet communications, refer to the *Digital Indicator K3HB Communications User's Manual* (Cat.No. N129).

BCD Output I/O Ratings (Input Signal Logic: Negative)

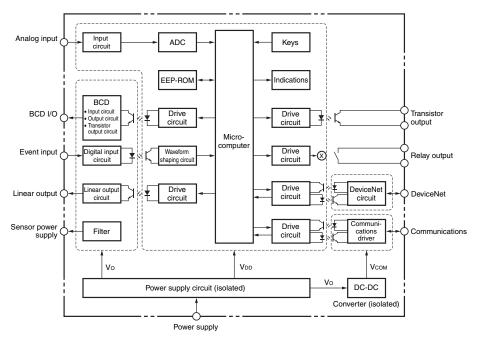
I/O signal name		Item		Rating
Inputs	REQUEST HOLD MAX MIN RESET	Input signal		No-voltage contact input
		Input current for no-voltage input		10 mA
		Signal level	ON voltage	1.5 V max.
			OFF voltage	3 V min.
Outputs	DATA POLARITY OVER DATA VALID RUN	Maximum load voltage		24 VDC
		Maximum load current		10 mA
		Leakage current		100 µA max.
	HH H PASS L LL	Maximum load voltage		24 VDC
		Maximum load current		50 mA
		Leakage current		100 µA max.

Note: For details on serial and DeviceNet communications, refer to the *Digital Indicator K3HB Communications User's Manual* (Cat.No. N129).

DeviceNet Communications

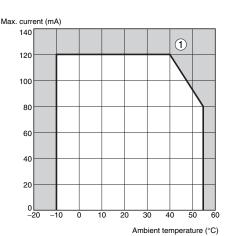
Communications protocol		Conforms to DeviceNet							
Supported communi- cations	Remote I/O communications	Master-Slave connection (polling, bit-strobe, COS, cyclic) Conforms to DeviceNet communications standards.							
	I/O allocations	Allocate any I/O data using the Configurator. Allocate any data, such as DeviceNet-specific parameters and variable area for Digital Indicators.							
		In	Input area: 2 blocks, 60 words max.						
		Output area: 1 block, 29 words max. (The first word in the area is always allocated for the Output Execution Enabled Flags.)							
	Message communications		Explicit message communications						
			CompoWay/F communications commands can be executed (using explicit message communications)						
Connection methods		Combination of multi-drop and T-branch connections (for trunk and drop lines)							
Baud rate		DeviceNet: 500, 250, or 125 Kbps (automatic follow-up)							
Communications media		Special 5-wire cable (2 signal lines, 2 power supply lines, 1 shield line)							
Communications dist	ance								
			Baud rate	Network length (max.)	Drop line length (max.)	Total drop line length (max.)			
			500 Kbps	100 m (100 m)	6 m	39 m			
			250 Kbps	100 m (250 m)	6 m	78 m			
			125 Kbps	100 m (500 m)	6 m	156 m			
			The values in parentheses are for Thick Cable.						
Communications power supply			24-VDC DeviceNet power supply						
Allowable voltage fluctuation range		11 to 25-VDC DeviceNet power supply							
Current consumption		50 mA max. (24 VDC)							
Maximum number of nodes		64 (DeviceNet Configurator is counted as one node when connected)							
Maximum number of slaves		63							
Error control checks		CI	CRC errors						
DeviceNet power supply		Supplied from DeviceNet communications connector							

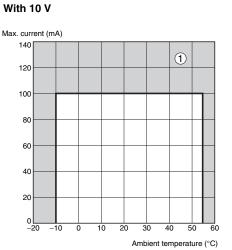
■ Internal Block Diagram



■ Power Supply Derating Curve for Sensor (Reference Value)

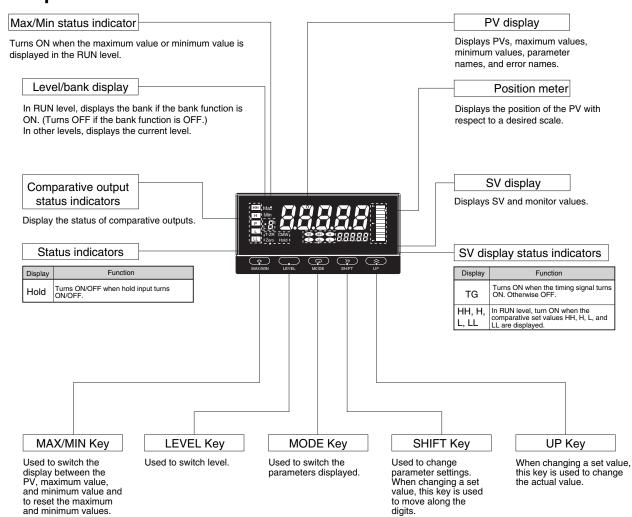
With 12 V





Note: 1. The above values are for standard mounting. The derating curve differs depending on the mounting conditions.

2. Do not use the Sensor outside of the derating area (i.e., do not use it in the area labeled ① in the above graphics). Doing so may occasionally cause deterioration or damage to internal components.

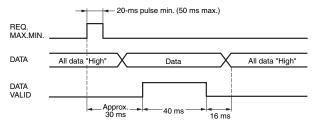


Component Names and Functions

BCD Output Timing Chart

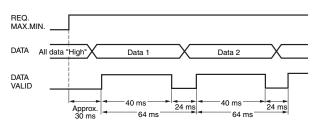
A REQUEST signal from a Programmable Controller or other external device is required to read BCD data.

Single Sampling Data Output



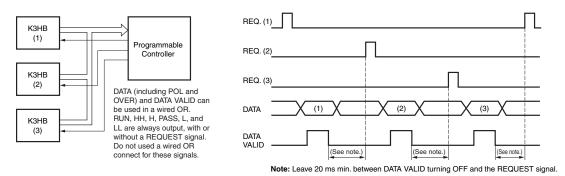
The data is set in approximately 30 ms from the rising edge of the REQUEST signal and the DATA VALID signal is output. When reading the data from a Programmable Controller, start reading the data when the DATA VALID signal turns ON. The DATA VALID signal will turn OFF 40 ms later, and the data will turn OFF 16 ms after that.

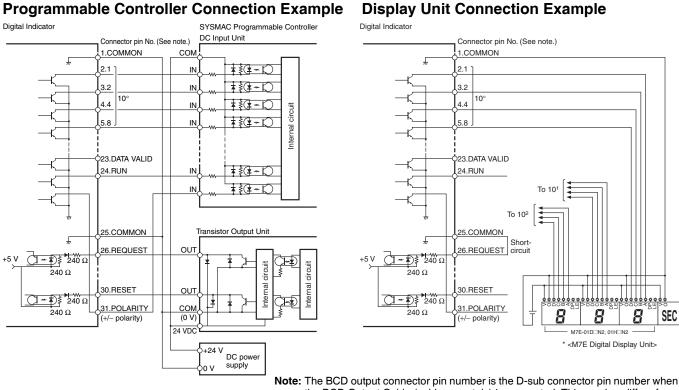
Continuous Data Output



Measurement data is output every 64 ms while the REQUEST signal remains ON.

Note: If HOLD is executed when switching between data 1 and data 2, either data 1 or data 2 is output depending on the timing of the hold signal. The data will not go LOW.





Intel BCD output connector pin number is the D-sub connector pin number when the BCD Output Cable (sold separately) is connected. This number differs from the pin number for the Digital Indicator narrow pitch connector (manufactured by Honda Tsushin Kogyo Co., Ltd.).

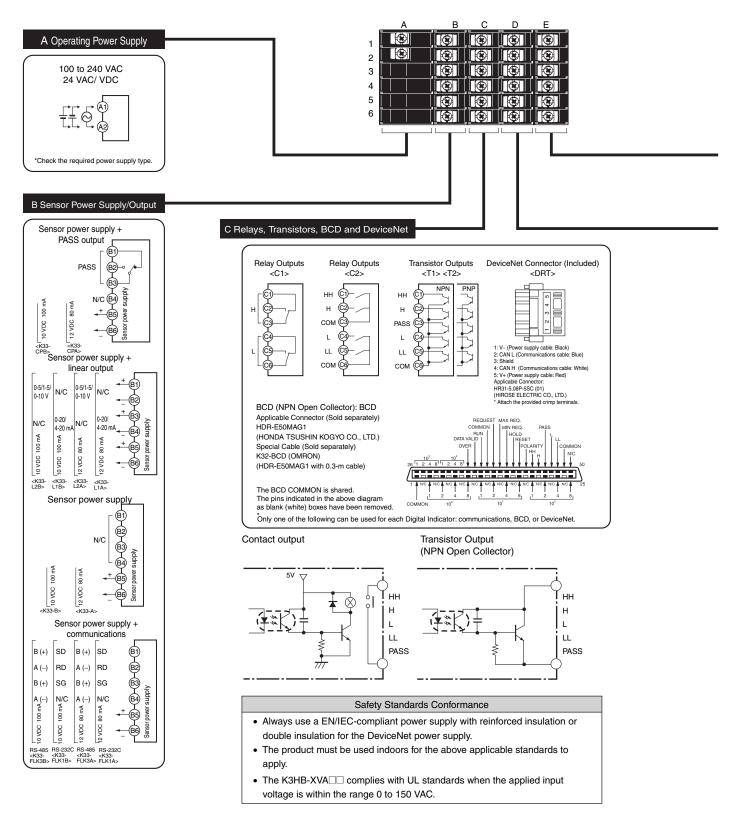
*M7E series were discontinued at the end of March, 2020.

Refer to the following User's Manual for application precautions and other information required when using the Digital Indicator: K3HB-S/-X/-V/-H Digital Indicator User's Manual (Cat. No. N128) The manual can be downloaded from the following site in PDF format: OMRON Industrial Web http://www.fa.omron.co.jp

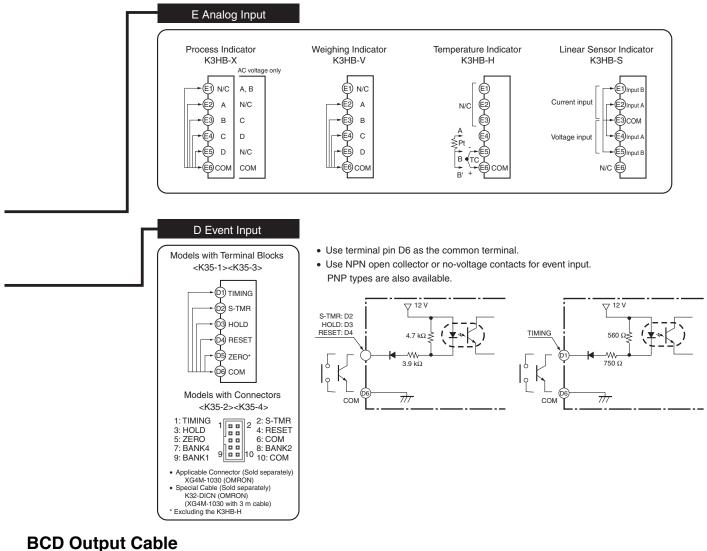
■ Connections

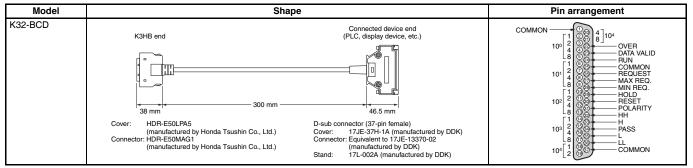
Terminal Arrangement

Note: Insulation is used between signal input, event input, output, and power supply terminals.



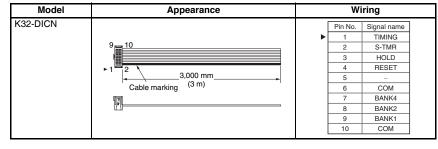
K3HB-H





Note: The BCD Output Cable has a D-sub plug. Cover: 17JE-37H-1A (manufactured by DDK); Connector: equivalent to 17JE-23370-02 (D1) (manufactured by DDK)

Special Cable (for Event Inputs with 8-pin Connector)

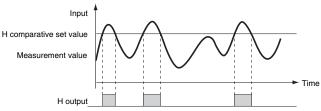


■ Main Functions Measurement

Timing Hold

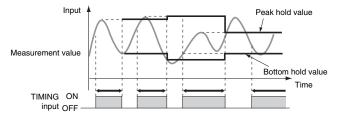
Normal

Continuously performs measurement and always outputs based on comparative results.



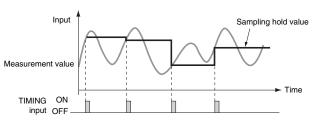
Peak Hold/Bottom Hold

• Measures the maximum (or minimum) value in a specified period.



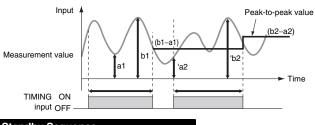
Sampling Hold

• Holds the measurement at the rising edge of the TIMING signal.



Peak-to-peak Hold

• Measures the difference between the maximum and minimum values in a specified period.



Standby Sequence

Turns the comparative output OFF until the measurement value enters the PASS range.

Average Processing

Average processing of input signals with extreme changes or noise smooths out the display and makes control stable.

Previous Average Value Comparison

Slight changes can be removed from input signals to detect only extreme changes.

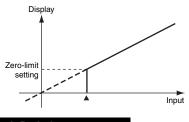
Temperature Input Shift

Shifts the temperature input value.

■ Input Compensation/Display

Zero-limit

Changes the display value to 0 for input values less than the set value. It is enabled in normal mode only. (This function can be used, for example, to stop negative values being displayed or to eliminate flickering and minor inconsistencies near 0.)

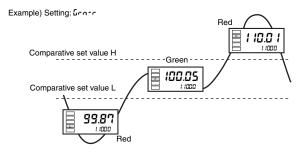


Display Refresh Period

The display refresh period can be lengthened to reduce flickering and thereby make the display easier to read.

Display Color Selection

Values can be displayed in either red or green. With comparative output models, the display color can also be set to change according to the status of comparative outputs (e.g., green to red or red to green).



Display Value Selection

The current display value can be selected from the present value, the maximum value, and the minimum value.

Step Value

It is possible to specify (i.e., restrict) the values that the smallest displayed digit can change by. For example, if the setting is 2, the smallest digit will only take the values 0, 2, 4, 6, or 8 and if the setting is 5, it will only take the values 0 or 5. If the setting is 10, it will only take the value of 0.

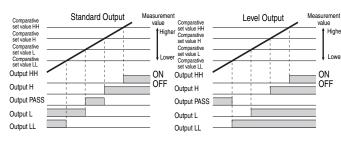
Interruption Memory

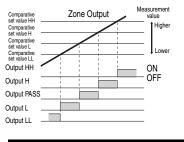
- The minimum and maximum values when the power supply is turned OFF can be saved if interruption memory is turned ON.
- If interruption memory is ON, the maximum and minimum values after the last resetting will be displayed.
- If interruption memory is OFF, the maximum and minimum values will be displayed after the power supply is turned ON (or after the reset input is performed).

Output

Comparative Output Pattern

The output pattern for comparative outputs can be selected. In addition to high/low comparison with set values, output based on level changes is also possible. (Use the type of output pattern appropriate for the application.)

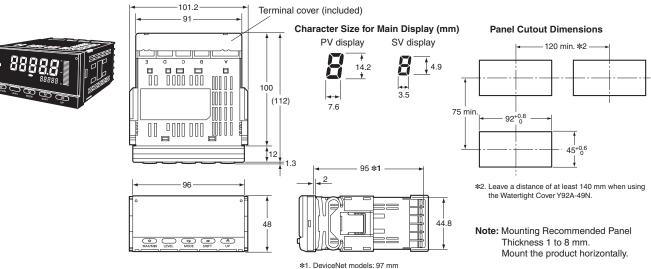




Output Logic

Reverses the output operation of comparative outputs for comparative results.

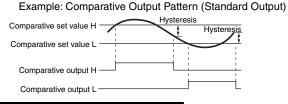
Dimensions



Terminal: M3, Terminal Cover: Accessory

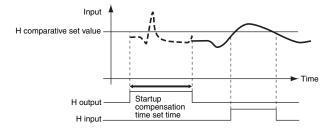
Hysteresis

Prevents comparative output chattering when the measurement value fluctuates slightly near the set value.



Startup Compensation Timer

Measurement can be stopped for a set time using external input.



PASS Output Change

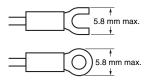
Comparative results other than PASS and error signals can be output from the PASS output terminal.

Wiring Precautions

- For terminal blocks, use the crimp terminals suitable for M3 screws.
- Tighten the terminal screws to the recommended tightening torque of approx. 0.5 $N{\cdot}m.$
- To prevent inductive noise, separate the wiring for signal lines from that for power lines.

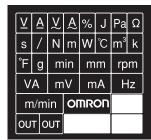
<u>Wiring</u>

• Use the crimp terminals suitable for M3 screws shown below.



Unit Stickers

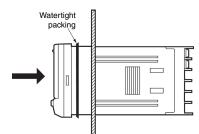
• Select the appropriate units from the unit sticker sheets provided and attach the sticker to the Indicator.



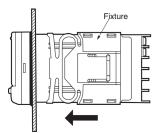
Note: When using for meters, such as weighing meters, use the units specified by regulations on weights and measures.

Mounting Method

- 1. Insert the K3HB into the mounting cutout in the panel.
- **2.** Insert watertight packing around the Unit to make the mounting watertight.

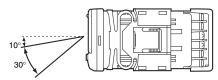


3. Insert the fixture into the grooves on the left and right sides of the rear case and push until it reaches the panel and is fixed in place.



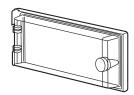
■ LCD Field of Vision

The K3HB is designed to have the best visibility at the angles shown in the following diagram.



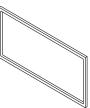
Watertight Cover

Y92A-49N



Rubber Packing

K32-P1



If the rubber packing is lost or damaged, it can be ordered using the following model number: K32-P1.

(Depending on the operating environment, deterioration, contraction, or hardening of the rubber packing may occur and so, in order to ensure the level of waterproofing specified in NEMA4, periodic replacement is recommended.)

Note: Rubber packing is provided with the Controller.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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