# HN-EK SERIES WALL MOUNTING TYPE TEMPERATURE / HUMIDITY METER



### "Proper Measurement" for air condition management

HN-EK series is thin designed wall-mounting type to eliminate the exterior disturbance to the utmost.

Recommended for pharmaceutical storage / warehouse, incubation room, etc., which requires high accuracy temperature and humidity measurement.

#### **FEATURES**

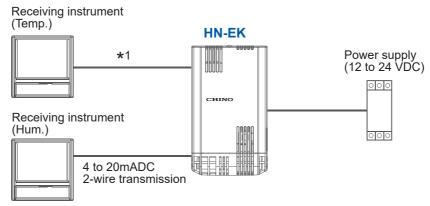
- Regress the heat conduction effect from the installment surface and realize high accuracy measurement.
- Easy maintenance by exchanging sensor unit.
- Thin design, installable to anyplace.



#### **MODELS**



#### CONFIGURATION



\*1 HN-EKA□N: 4 to 20mADC (2-wire transmission) HN-EKB1N: Pt100, 3-wire



#### High accuracy sensor equipped

Realize  $\pm 2\%$ RH measurement at vast range. Adopt platinum resistance thermometer (accuracy:  $\pm 3^{\circ}$ C) (Select output from either 4 to 20mADC 2-wire transmission or Pt100 $\Omega$  3-wire).

#### Sensor unit exchangeable

Traceability certificate issuable just for the exchanging sensor unit.

Model name: HN-ESKA9N for HN-EKA□N,HN-ESK9BN for HN-EKB1N.

Annual exchanging is recommended.

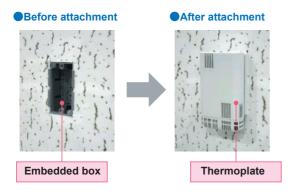


#### **Easy installment**

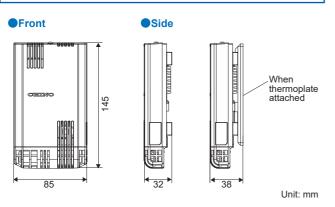
Installable to general purpose embedded box. (Installation pitch 83.5mm (JIS C8435))

## Regress the heat conduction effect from the installment surface

Thermo-plate to cut the heat from large heat capacity wall or pillar is standard attached.



#### **External dimensions**

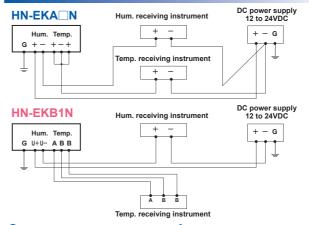


#### **Specifications**

Model	HN-EKA1N HN-EKA2N	HN-EKB1N	
Humidity sensor	High-polymer capacitance type		
Measuring range	0 to 95%RH		
Accuracy rating	±2%RH (at 5 to 90%RH, 25°C)		
Response time	Within 15 seconds *1		
Output signal	4 to 20mADC 2-wire transmission		
	(for 0 to 100%RH)		
Resistance load	500Ω or less		
	(at 24VDC power supply)		
Temperature sensor	Platinum resistance thermometer,		
	Pt100 equivalent		
Measuring range	-10 to 55°C 0 to 50°C	-10 to 55°C	
Accuracy rating	±0.3°C		
Response time	Within 10 minutes (at 0.15m/s ventilation)		
Output signal	4 to 20mADC	Pt100 (100Ω	
	2-wire transmission	at 0°C) 3-wire	
	(for -10 to 55°C) (for 0 to 50°C)		
Resistance load	500Ω or less		
	(at 24VDC power supply)		
Sensor compatibility	Compatible by sensor unit		
Power supply	12 to 24VDC		
Connection	Spring type terminal board (AWG 14 to 28)		
Installation	Screw terminal (M4 screw x 2 each)		
Working temp./	-10 to 55°C, 0 to 95%RH		
hum. range	(no dew condensation)		
CE Marking	EMC: F2014/30/EU		
	EN61326-1: F2013 Class A		
	Stability/ Hum. ±3%RH, (Temp.±1.5°C		
	only for HN-EKA)		
	*Under the test environment by EMC directives. RoHS: 2011/65/EC, EN50581: 2012		
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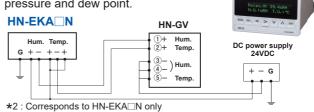
\*1 : Response condition: Step response to humidification

#### Connection



#### • Humidity converter HN-GV \*2

Converts and output to absolute humidity, relative humidity, mixing ratio, vapor pressure and dew point.



Specifications subject to change without notice. Printed in Japan (I) 2025. 11

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