HN-EK SERIES WALL MOUNTING TYPE TEMPERATURE / HUMIDITY METER



"Proper Measurement" for air condition management

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

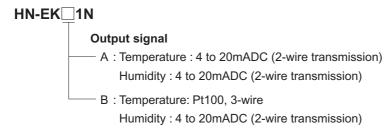
Recommended for pharmaceutical storage / warehouse, incubation room, etc., which requires high accuracy temperature and humidity measurement.

FEATURES

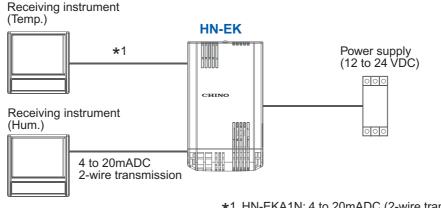
- Regress the heat conduction effect from the installment surface and realize high accuracy measurement.
- Easy maintenance by exchanging sensor
- Thin design, installable to anyplace.



MODELS



CONFIGURATION



*1 HN-EKA1N: 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: ± 3 °C) (Select output from either 4 to 20mADC 2-wire transmission or Pt100 Ω 3-wire)

Sensor unit exchangeable

Traceability certificate issuable just for the exchanging sensor unit. Model name: HN-ESKA9N for HN-EKA1N,HN-ESK9BN for HN-EKB1N. Annual exchanging is recommended.

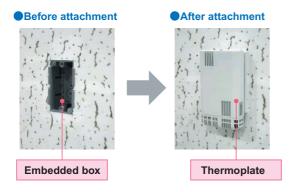


Easy installment

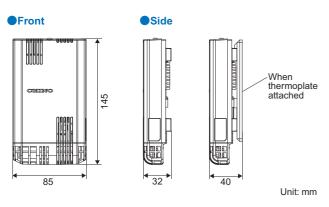
Installable to general purpose embedded box. (Installation pitch 83.5mm (JIS C8435))

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

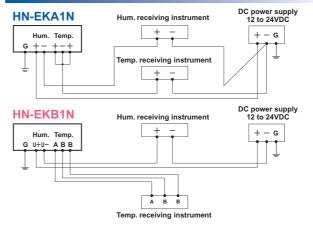


Specifications

Model	HN-FKA1N	HN-FKB1N
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	500 Ω or less	
	(at 24VDC power supply)	
Temperature sensor	Platinum resistance thermometer,	
	Pt100 equivalent	
Measuring range	-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 (100 Ω at 0°C) 3-wire
	2-wire transmission	
	(for -10 to 55°C)	
Resistance load	500 Ω 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./	-15 to 60°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	
1		

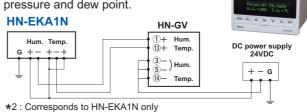
*1 : Response condition: Step response to humidification

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) 2017. 11

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