

THERMO-HYGROMETER HN-C series



HN-C series using newly developed humidity element are high performance and highly reliable 2-wire transmission type thermo-hygrometers for the wide measuring range of 0 to 100%.

Wall-mount type, separated type and inserting type are available for various applications.

Heat-resistive separated type, which can be used in the operating temperature of -40 to 180°C , is available, too.

■ FEATURES

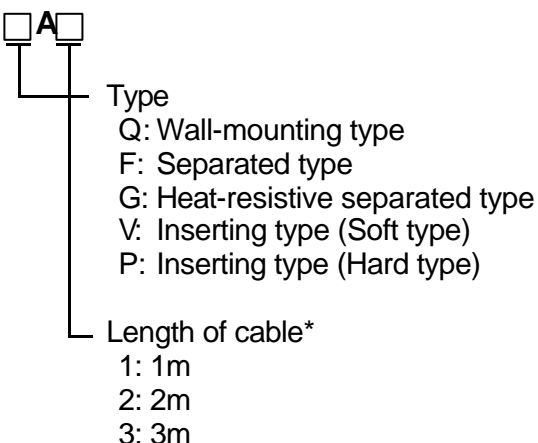
- Newly developed humidity element is built-in for improving reproducibility reliability.
- Measurable relative humidity is 0 to 100%RH by the capacitance type element.
- Five types of wall-mount type, separated type, heat-resistive separated type, and inserting type (soft type and hard type) are available for various applications.
- The sensing part of the heat-resistive separated type can be used in the operating temperature of -40 to 180°C .
- Interchangeable sensing part for easy maintenance
- Mounting on DIN rail is possible. (except inserting type)
- Confirms to CE-marking.

■ MAJOR APPLICATIONS

- Measurement and control of temperature/humidity in environment testing machines, chambers and clean benches
- Measurement and control of temperature/humidity of food storage houses, grain storage houses and green houses
- Measurement and monitoring of temperature/humidity of exhausting ducts
- Measurement and monitoring of temperature/humidity of baking chambers



■ MODEL HN-C

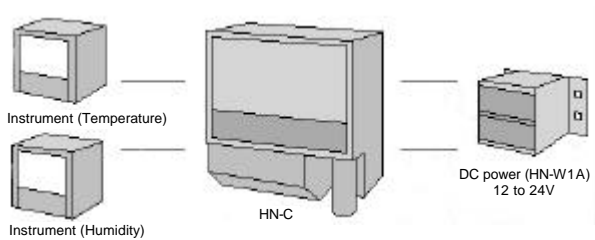


* Only for separated type and heat-resistive separated type. Others are blanks

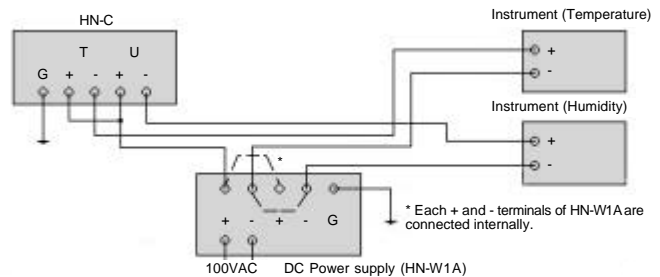
GENERAL SPECIFICATIONS

Item	Wall-mounting type	Separated type	Heat-resistive separated type	Inserting type (Soft type)	Inserting type (Hard type)
Model	HN-CQA	HN-CFA	HN-CGA	HN-CVA	HN-CPA
Humidity	Element	High polymer capacitance type			
	Measuring range	0 to 100% (No dew condensation)			
	Accuracy ratings	±2 %RH (at 0 to 90%RH and 25 °C); ±3 %RH (at 90 to 95%RH and 25 °C)			
	Coefficient of relative humidity/temperature	±0.1%RH / °C (at 5 to 80°C)			
	Response time (90% response)	Within 15 sec. (at 25 °C and wind speed of 0.1 m/s)			
	Output signal	4 to 20mA DC; 2-wire transmission (For 0 to 100%RH)			
	Resistance load	Lower than 500Ω (at 24VDC power voltage)			
Temperature	Element	Platinum resistance thermometer; Pt100 JIS, Class A			
	Measuring range	0 to 50 °C	-40 to 80 °C	-40 to 180 °C	0 to 50 °C
	Accuracy ratings	±0.3°C	±0.5°C	±0.3°C	±0.3°C
	Output signal	4 to 20mA DC; 2-wire transmission (For measuring range)			
	Resistive load	Lower than 500Ω (at 24VDC power voltage)			
Interchangeability (separated)		Plug-in	Plug-in including cable	Plug-in	
Working temperature	Unit	0 to 50 °C			
	Sensor	0 to 50 °C	-40 to 80 °C	-40 to 180 °C	0 to 50 °C
Power voltage		12 to 24VDC ±1V			
Connecting		Cramp type no screw terminals			Terminals (M4 x 5)
Material	Unit	Resin			Die cast aluminum
	Protection Tube	---			Stainless steel
Mounting		By screws (M4x2) or mounting on DIN rail			By flange (JIS 5K 25A)
Weight (unit only)		About 160g	About 220g	About 240g	About 1.6 kg
Accessories		Fixtures for wall-mounting			---
Other		---	Cable length: 1m, 2m or 3m (to be specified)	---	---

CONFIGURATION

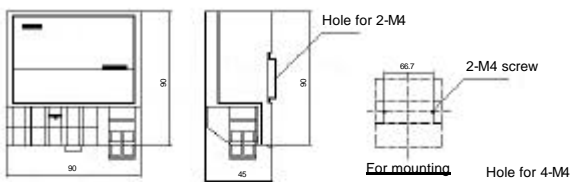


CONNECTIONS

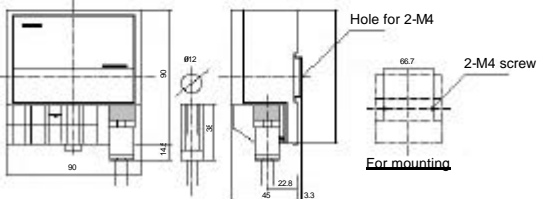


DIMENSIONS

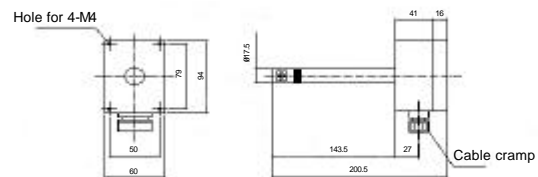
Wall-mount type



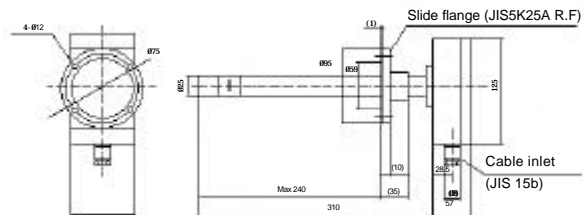
Separated type Heat-resistive separated type



Inserting type (Soft type)



Inserting type (Hard type)



Specifications subject to change without notice. Original 2000.12

CHINO CORPORATION

32-8, KUMANO-CHO, ITABASHI-KU, TOKYO 173-8632

PHONE: +81-3-3956-2171

FAX: +81-3-3956-0915

E-mail: inter@chino.co.jp

Website: http://www.chino.co.jp