



Nippon Technologies

HUMIDITY INDICATORS



HUMIDITY / TEMPERATURE INDICATOR cum CONTROLLER

Nippon HC2000

Nippon HC2000 a brainchild of Nippon Technologies is Humidity/Temperature Indicator cum Controller. State-of-the-art microcontroller design is a high performance solution for various HUMIDITY applications. It accepts two 4-20 mA inputs. One for Humidity and another for Temperature. Generally the signal comes from humidity transmitters.

TYPICAL APPLICATIONS

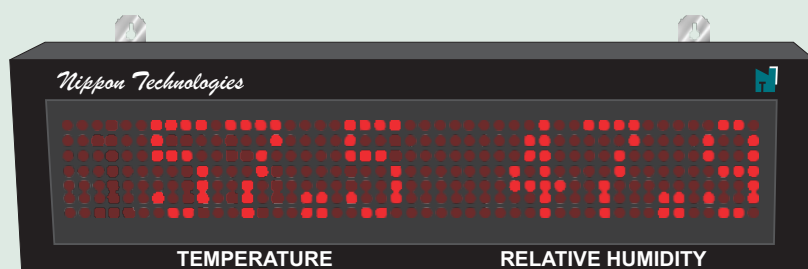
- Humidity Chambers
- Pharmaceutical and Clean room applications
- HVAC
- Storage Rooms, Cold Storages and Ware Houses
- Building Automation and Green Houses

Specifications

INPUT	From Humidity/Temp. Transmitter, contact factory for Dry / Wet bulb Input
DISPLAY	2 Sets of (4+4) digit display. Upper for TEMPERATURE & lower for HUMIDITY
RANGE	Humidity 0 to 96.0 %RH Temperature : -20 to 80.0 °C Depending on type of TRANSMITTER
RESOLUTION	Relative Humidity : 0.1 RH Temperature : 0.1 °C
OUTPUT	2 Relays. A) Humidity Control : One relay for Humidification Second relay for Dehumidification B) Temperature Control : One relay for Cooling (Compressor/Blower) Second relay for Heating (Heater)
CONTROL ACCURACY	± 3% For HUMIDITY/±0.25% for Temperature.

CONTACT FACTORY FOR HUMIDITY SCANNERS and LOGGERS

LARGE SIZE DISPLAY UNITS



- Display Size** : 150 mm height
- Display Type** : L.E.D. Matrix, High Intensity red L.E.D 's
- Box** : Wall mounting weather - Proof Box
- Design** : Microcontroller based, Slave Model for HC 2000, RS232 COMMUNICATION
- Applicaton** : Annunciation, easy to read from long distance



BLOOD BANK CONTROLLER

Nippon UN2000

Temp. / Time based Controller

Nippon UN2000 is used in this application. TEMP/TIME Based control is designed for BLOOD BANK CHAMBERS. Compressor is switched ON and OFF considering SET TEMP and TIME. Compressor is on upto the set point, below the setpoint it gets off.

Once the compressor gets off and if temperature increases above set point it can get ON only after the DELAY TIME.

The delay time is also programmable.

THE TIME AND TEMPERATURE MONITORING AND CONTROL LEADS TO OPTIMUM USE OF COMPRESSORS TOO !

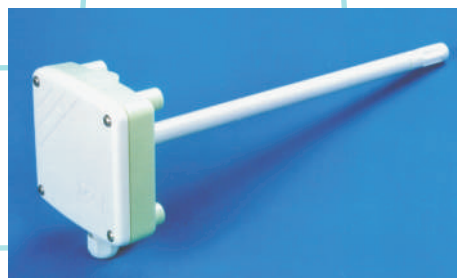
Specifications

Input	Pt100 (3-wire) sensor
Display	2 Sets of (4+4) digit display 1st for Chamber Temperature and 2nd for Delay time
Range	Temperature 00 to 80.0 °C, Time 1-99 Minutes
Resolution	0.1 °C
Compressor Safety Timer	Provided to avoid frequent on/off
Output	2 Relays One relay for Cooling (Compressor), Second relay for Alarm

Common Specifications for HC2000 and UN2000

Setting	By Feather touch membrane key pads.
Relay Rating	230 Volts / 6 Amp. (SSR O/P on request)
Real Time Clock	Non Volatile Time Keeping RAM ensures correct Clock.
Data Security	By NVRAM, ensures data retention for 10 years.
Noise Immunity	A) EMI/RMI interface is suppressed by MOV's and R-L-C filters. B) "WATCH DOG" guards CPU during power transients.
Computer Interface	RS232 / RS485 / NIPPOLOG available
Supply	90-260 VAC, 50 Hz
Box	96(H) x 96(W) DIN size, Modular Design

HUMIDITY / TEMP. TRANSMITTERS



These are compact transmitters for humidity, temperature and combined humidity / temperature with excellent price / performance ratio. The humidity range is 0-100 %RH and temperature -20 to +80 °C depending on the model. The sensor offers excellent long term stability, very low hysteresis and high quality.



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