

# HT950N - HT4000 - HT2234N

## DIGITAL THERMOHYGROMETER, THERMOANEMOMETER AND TACHOMETER

HT950N controller is designed to monitor the temperature inside internal circuits of MV/LV oil or air transformers in order to prevent possible breakaging or excessive overheating. The model (96 x 96 mm), built in panel configuration, receives up to 4 input signals from Pt100 DIN 3-wire and performs temperature measurement up to 200°C.

HT4000 is a multifunction analyzer of environmental parameters as air temperature/humidity, air speed, air flow and pressure. It is particularly indicated for HVAC plants verifies.

HT2234N is a digital tachometer to perform RPM measurements of rotating parts (disks, motor trees, etc..) both on contact and without contact by using of a laser emission ray transmitted and received from the object under measurement.

### FUNCTIONS

HT950N

- Temperature range from 0°C to 200°C
- 4 x 3-wire DIN Pt100 DIN available inputs
- 3 x free contact 5A/250V output relays
- 4 temperature alarms setting thresholds
- MAX temperature recorded on each input signal
- Automatic adjustment of Pt100 cable resistance
- LED indications and red LED displays
- Dust protection keyboard
- AC/DC external power supply

### FUNCTIONS

HT4000

HT2234N

FUNCTIONS	HT4000	HT2234N
Air temperature measurement in °C / °F	•	
Atmospheric pressure	•	
Relative humidity measurement (%RH)	•	
Air speed measurement (m/s) and air flow measurement (CMM/CFM)	•	
RPM with and without contact measurement		•
Counter of events		•
Laser pointer		•
MAX / MN / HOLD		•
AutoPowerOFF	•	•

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### GENERAL SPECIFICATIONS

HT4000

Meas. unit	Range	Meas. unit	Range
<b>Air speed measurement with external probe</b>			
m/s	0.4 ÷ 25	Km/hr (kph)	1.5 ÷ 90
mph	0.9 ÷ 55	Knots (kts)	0.8 ÷ 48
ft/min (fpm)	79 ÷ 4921	Beaufort	1 ÷ 10
<b>Airflow measurement with external probe</b>			
CMM	0 ÷ 9999	CFM	0 ÷ 9999
<b>Air humidity measurement with internal sensor</b>			
%RH	0 ÷ 100		
<b>Air temperature measurement with internal sensor</b>			
°C	-20 ÷ 60	°F	-4 ÷ 140
<b>Atmospheric pressure measurement with internal sensor</b>			
hPa	350 ÷ 1100	inHg	10.3 ÷ 32
mmHg	263 ÷ 825		

Power supply: 1x9V battery type IEC6F22

Dimensions (LxWxH): 130x56x38mm

Weight (included batteries): 160g

### Standard accessories

Carrying case

External probe

Battery + user manual

### GENERAL SPECIFICATIONS

HT2234N

Non-contact speed range: 10.00 ÷ 99999 RPM

Contact speed range: 20.00 ÷ 29999 RPM

Resolution: 0.01 ÷ 1RPM

Events counter range: 0 ÷ 99999

Response time: 0.7s (>60RPM)

Distance from object: 50 ÷ 300mm

Display: LCD, 5 dgt, 99999 points

AutoPowerOFF: after 30min

Data HOLD

MAX/MIN

Power supply: 4x1.5V batteries AA LR06

Dimensions (LxWxH): 172x63x36mm

Weight (included batteries): 190g

### Standard accessories

Mechanical adapter + fixing screw

Rubber part

Rubber terminals of various shape

Reflecting tape

Carrying bag

Batteries+user manual



HT950N  
HA000950



HT4000  
HN004000



HT2234N  
HA02234N



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## 1. ELECTRICAL SPECIFICATIONS

Accuracy is given as  $\pm$  (% of reading + no. of least significant digits) at  $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ , <80% R.H.

### INPUTS

Type	Range	Accuracy	Resistance compensation
Pt100 DIN 3 wires	0 ÷ 200°C	$\pm(0.5\% \text{ rdg} + 1\text{dgt})$	Automatic

### OUTPUTS

Type	Current	Nominal Voltage	Nominal Power
Independent relays free contact voltage	5A	250V	1250VA on AC1

## 2. GENERAL SPECIFICATIONS

### Display:

- 3 red LED display (12x17mm) ; 2+3 red LED display (10x12 mm)

### Function:

- Temperature real-time measure from 0 to 200°C.
- Programming up to 4 temperature input signal from Pt100 3 wires.
- Set of programmable thresholds, on full range, of pre-alarm T1 and alarm T2 with  $T2 > T1$ .
- Set of programmable thresholds, UA and UF, with  $UF < UA$  for activation of forced ventilation or other.
- Programming from instrument keyboard.
- Recording MAX value of each 4 columns.
- Programming of input number.

### Operating temperature:

- $-10^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ , 0 - 70 % R.H.

### Storage temperature:

- $-20^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ , 0 - 80 % R.H.

### General informations:

- Indoor use
- Altitude up to 2000m
- Insulation: class 2 (double insulation).
- Case: plastic self-extinguish material (Noryl).

### Power supply:

- 24-240V AC/DC
- Frequency: DC or 50/60Hz

### Dimension:

- 960 (H) x 960 (W) x 1100 (D) mm

### Weight:

- about 800 gr.

### Applied standards:

- LVD: EN 61010-1 – CAT III 300V
- EMC: EN61326

This product conforms to the prescriptions of the European directive on low voltage 2006/95/EEC and to EMC directive 2004/108/EEC

