

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
Air speed measurement with external probe			
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
Airflow measurement with external probe			
CMM	0 ÷ 9999	CFM	0 ÷ 9999
Air humidity measurement with internal sensor			
%RH	0 ÷ 100		
Air temperature measurement with internal sensor			
°C	-20 ÷ 60	°F	-4 ÷ 140
Atmospheric pressure measurement with internal sensor			
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. TECHNICAL SPECIFICATIONS

Accuracy is calculated as [% rdg + values]. It is referred to 25°C ± 5°C, <80%RH

Air speed measurement with external probe

Measurement unit	Range	Resolution	Accuracy
m/s	0.4 ÷ 25	0.1	±(2%rdg + 0.2)
Km/hr (kph)	1.5 ÷ 90		±(2%rdg + 0.8)
mph	0.9 ÷ 55		±(2%rdg + 0.4)
Knots (kts)	0.8 ÷ 48		
ft/min (fpm)	79 ÷ 4921	1	±(2%rdg + 40)
Beaufort	1 ÷ 10		---

Airflow measurement with external probe

Measurement unit	Range	Resolution	Accuracy
CMM (m ³ /min)	0 ÷ 9999	1	---
CFM (ft ³ /min)			---

Air temperature measurement with internal sensor

Measurement unit	Range	Resolution	Accuracy
°C	-20 ÷ 60	0.1	±1°C
°F	-4 ÷ 140		±1.8°F

Air humidity measurement with internal sensor

Measurement unit	Range	Resolution	Accuracy
%RH	20 ÷ 80	0.1	±3.5%RH
	<20 , >80		±5%RH

Atmospheric pressure measurement with internal sensor

Measurement unit	Range	Resolution	Accuracy
hPa	350 ÷ 1100	0.1	±2hPa
mmHg	263 ÷ 825		±1.5mmHg
inHg	10.3 ÷ 32		±0.1inHg




2. GENERAL SPECIFICATIONS

Mechanical characteristics

Dimensions of instrument (LxWxH):	130 x 56 x 38mm
Dimensions of external probe (LxWxH):	195 x 47 x 30mm
Length of external probe's cable:	0.95m
Weight of instrument (including battery):	160g
Weight of external probe:	100g

Supply

Battery type:	1 battery 9V NEDA 1604 IEC 6F22 JIS 006P.
Low battery indication:	"  " symbol is displayed
Battery life:	approx 100 hours
Auto power OFF:	about 15 minutes of idleness

Display

Main display:	4 LCD decimal point and backlight
Secondary display:	6 LCD decimal point and backlight

Memory

Memory capacity:	99 locations
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Climatic conditions

Reference temperature:	25°C ± 5°C
Operating temperature:	5 ÷ 40 °C
Operating humidity:	<80%RH
Storage temperature:	-10 ÷ 60 °C
Storage humidity:	<70%RH
Max height of use:	2000m

This product conforms to the prescriptions of the EMC directive 2004/108/EEC