

4 Channel voice coil temperature meter

MODEL OT-1020

Summary

OT-1020 is a thermometer that measures the temperature of the speaker's voice coil unit. It follows any signal source (sine wave, white noise, pink noise, standard load test noise, music source) from 20Hz to 20kHz.

Displays graphs and values of temperature and input voltage versus time.

A BTL amplifier can also be used, and this unit can be controlled simultaneously by one PC (up to 5 units), and up to 20 voice coils can be measured simultaneously.

In addition, compared to the conventional model (OMT-405), the stability of measured values has been further improved.

System composition

- OT-1020 control unit (The figure below)
- Notebook computer (abbreviated to PC)

Control unit exterior photo



Features

- Data sampling : 1s, 10s, 60s 3range setting
- Measurement time setting : 1min to 100h (1min setting)
- Stop temperature setting (Forced termination) : -50 to 400°C (1°C unit setting)
- Operates in "All mode", which records any channel simultaneously, and "Single mode", which records each channel separately
- Measurement data is saved in our proprietary format. Separately CSV format and drawing graph can be output as JPEG.

Display

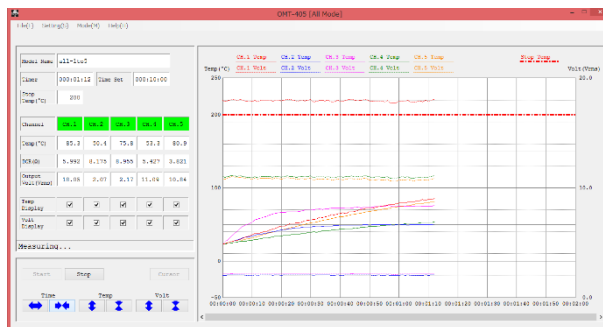
[All mode]

Plot temperature and voltage for all channels

On the same graph.

The vertical axis (temperature and voltage) and

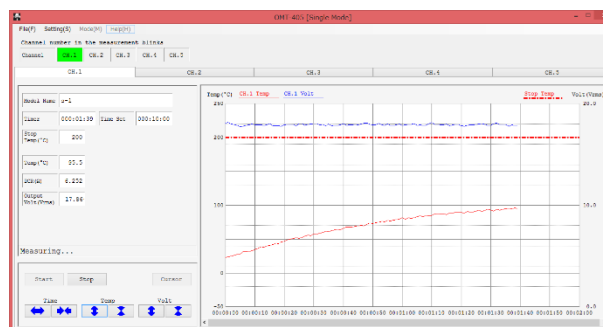
The horizontal axis (time) can be enlarged or reduced.



[Single mode]

Draw temperature and voltage for each channel

and switch with tabs.



※This is an image under development

Specifications

【Basic performance】	
Measurement channel number	4 channel
Measurement temperature range	-40°C to 400°C
Surrounding temperature under test	-40°C~100°C
Indication resolution	0.1°C
Speaker DC resistance range	1.5Ω to 40Ω (at 20°C)
Material of voice coil	Copper, Aluminum
Response selector	2 positions to change low-pass cut-off frequency
Maximum number of connected units	5 units (4ch x 5units = 20ch)
【Input rated signal】	
Maximum input voltage	160Vp-p ※ Signal peak (instantaneous maximum voltage) must not exceed 160Vp-p
【Temperature / Humidity range】	
	0°C to 40°C / 20% to 90% (No condensation)
【Power source / Power consumption】	
	AC100, 110, 120, 220, 230, 240V ±10% 50/60Hz AC voltage is specified by user when shipped Approx. 50VA
【Control unit dimensions (mm) / Mass】	
	430 (W) x 120 (H) x 310 (D) excluding projections 430 (W) x 130 (H) x 340 (D) Including projections Approx. 8kg
【Accessory】	
	Power cord, USB cable

Specifications are subject to change for improvement

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