

# Specifications

## Voice Coil Temperature Meter

### Model OMT-205A

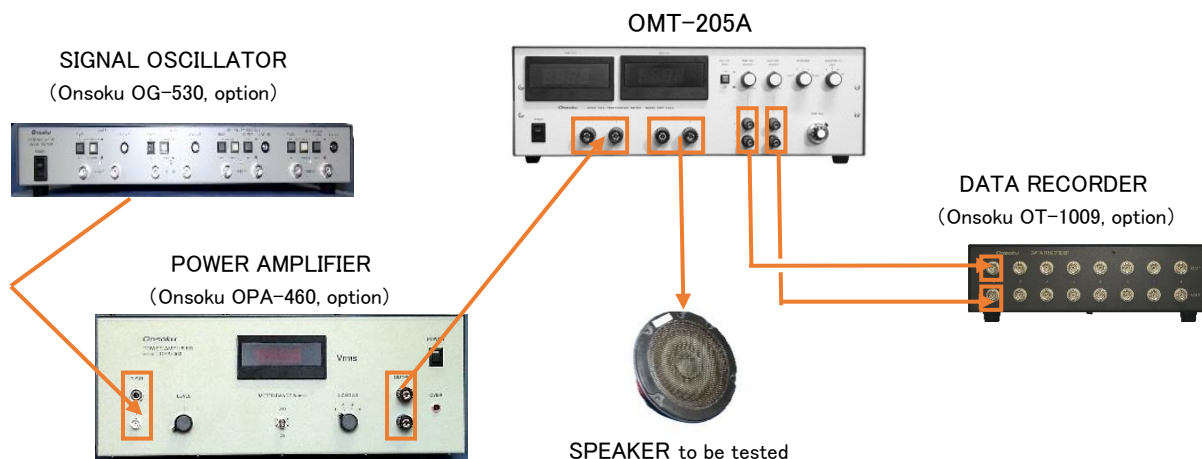
(Appearance)



#### 1. Summary

OMT-205A is designed to measure the temperature of the speaker voice coil while in operation. Measurement can follow the signal source of sine waves, white noise, pink noise, or music source in the frequency range from 20 Hz to 20 kHz. The measured temperature and the input voltage are simultaneously displayed on digital displays. Two DC output terminals are prepared to record the temperature and the input voltage simultaneously.

## 2. Connection diagram



In OMT-205A, the minus terminal is grounded. Therefore when the power amplifier based on “BTL” connection is used, perform the following items.

- (1) The power cord: The grounding cord with 2P plug must not be used (don't ground). In case of 3P plug, cut the grounding pin (don't ground). <Please note that OMT-205A isn't grounded.>
- (2) Don't touch the surrounding metal with the chassis of OMT-205A. If many OMT-205A are piled up, confirm they are insulated each other by the rubber feet of the lower part of the unit.

## 3. Specifications

Measuring temperature range and accuracy	0 °C ~ 400 °C Accuracy: ±3% of Reading
Surrounding temperature of the speaker under test	0 °C ~ 40 °C
Resistor (Ω)	2 Ω 4 Ω 8 Ω 16 Ω 32 Ω 5ranges
Material of voice coil	Copper, Aluminum
Maximum input voltage	250V <sub>p-p</sub> Note: The power amplifier must not be clipped by a peak of the signal.
Output to the recorder	Temperature (The control of “TEMP REC OUTPUT” is set at the “CAL” (extremely clockwise) position : DC 1 V per 100 °C Input voltage (The control of “VOLT REC OUTPUT” is set at the “CAL” (extremely clockwise) position : When “Volt(V) Range” is set to “20 V” → max. DC 2 V When “Volt(V) Range” is set to “100 V” → max. DC 1 V
Recorder output impedance	100 Ω
Ranges for input voltmeter	20 V and 100 V / full range
Response selector	5 positions to change low-pass filter cut-off frequency
Power Requirements	AC 50/60 Hz, 100 V, 110 V, 120 V, 200 V, 210 V, 220 V, 230 V, 240 V ±10% Voltage can be specified at the shipment (internal change)
Power consumption	Approx. 20 VA
Dimensions	380 mm (W) × 130 mm (H) × 270mm (D) (excluding projections)
Mass	Approx. 8 kg

Some specifications may be changed without notice due to improvement.