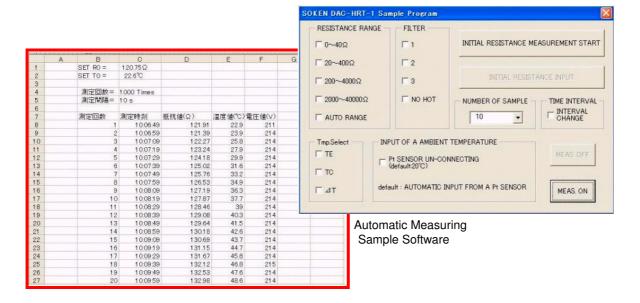


HOT LINE

HOT LINE COIL RESISTANCE & TEMPERATURE METER

DAC-HRT-1





Coil Winding Temperature Test under energized in AC voltage!!

For JIS 5 3 1 1 standard test

東方科技公司 ORIENTAL TECHNOLOGY COMPANY

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General



This measuring instrument, based on a testing standard JIS5311, can measure resistances of coil winding of motors and transformers under energized in AC voltages. The measured resistances are automatically calculated by an internal CPU to give an equivalent in temperature.

It is possible to ensure the safety in the rise in heat of electrical machineries like motors and transformers.

Feature

- Maximum 450V AC test available.
- GP-IB and RS232C as standard
- With Temperature sensor PT100 (option). It can respond to the change in environmental temperature.
- With Selection Control Box(option), DAC-SCB-2 a number of specimen can be measured in series.
- With Thermal printer (option) measured value and a temperature equivalent can be printed out.

Specifications

• Resistance Measuring Range :

 $0 - 40.000 \Omega$ 20Ω range : **20.00** – **400.00** Ω 200 Ω range **2000** Ω range : **200.0** – **4000.0** Ω **20000** Ω range : **2000** - **40000** Ω

Test specimen applied voltage: Max. AC450V (50/60Hz)

 Measuring Input Impedance : 200k Ω or more(50/60Hz) Minimum resolution : $1m\Omega$ (20 Ω range)

Display :

海

Resistance: 5 digitals, Max display"41000"

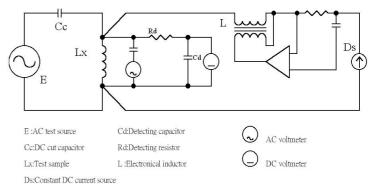
Temperature:

5 digitals · Max display "999.9"(°ℂ) "1999.9" (F°)

Voltage: 3 Digitals, Max display "550"

Measurement principle

Alternating voltage (E) is supplied to the sample (Lx). In the state, a direct testing current is superimposed from a constant current source (Ds), and the voltage (E) component is eliminated by Rd and Cd to measure by Potential Drop Method. At this time, so that the testing current from a constant current source may not flow into AC power supply, a blocking capacitor, Cc, is combined. And an electronic inductance (L) is combined so that AC power source may not flow into the constant current source.



Applications

- Motor
- · For home appliances, industry and **Telecommunications**
- Compressor Motor for Air conditioner
- Transformer Choking Coil
 - · Home Appliances
 - · Audio and Video equipment
 - Microwave oven
 - · For medical equipment



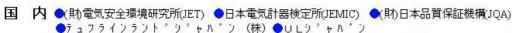


- Measuring Accuracy : ±(0.05%fs+2 digits)
- Interface : GP-IB, RS232C Data Printout (Option)
- Power Sorce :

AC100V - 240V ±10% 50/60Hz

- Size : W430mmxH150mmxD385mm
- Weight: 18kg
- Option
 - 1. Temperature Sensor (Pt100)
 - 2. Thermal Printer (Serial Interface)
 - 3. DC Blocking Capacitors
 - 4. Selection Control Box (DAC-SCB-2)

納入実績 ※HOT LINE 測定器として試験機関抜粋 (順不問)

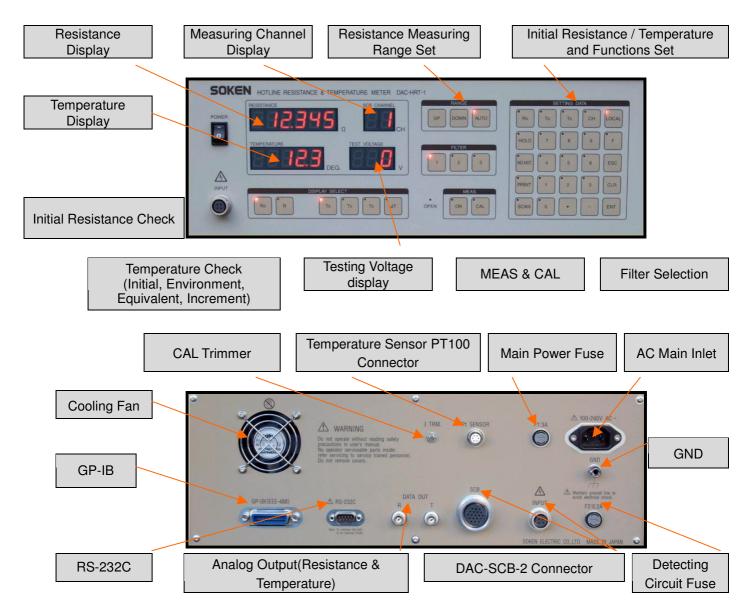


外 ◆U L(ア メ リ カ 、 香港) ◆B S I (イ ギ リ ス) ◆E I(フィンランド) ◆C S A(カ ナ ダ) ◆E E A(エ ヴ プト)

- ●VDE(ト ゚ イツ) ●SEMKO(ス I‐ テ ゙ ソ) ●KEMA(オ ラ ソ タ ゚) ●広州電気安全試験室(中国) ●検研局(中国)
- ◆上海浦東海関 進出□商品検験局(中国) ◆美華認証(蘇州 UL)有限公司(中国) ◆上海医療器械検験局(中国) ◆広州電器検測研究所(中国)
- ◆広東省広州進出口商品検験局(中国) ◆浙江省技術監督局方園検測有限公司(中国) ◆安徽省合肥通用機会研究所(中国)
- ◆Small and Medium Business Administration (韓国) ●Korea Institute of Industrial Technology(KITECH) 韓国
- ◆Korea Electrotechnology Reserch Institute(KERI)韓国 ◆Korea Electric Testing Institute(KETI)韓国 ◆Korea Testing Laboratory(韓国)
- ◆Korea Electrical Safety Corporation(KESCO)韓国 ◆Korea Electronics Technology Institute(KETI)韓国

Panel explanation



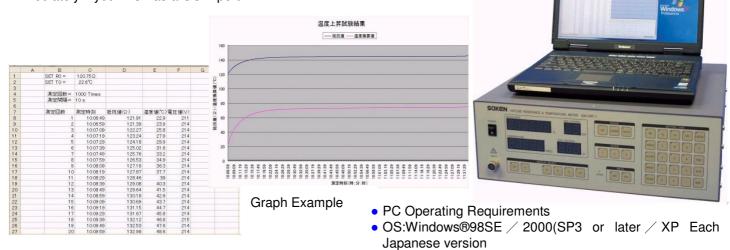


Automatic Measuring Software (sample)

This sample software runs on Excel.

The data measured automatically can be taken into the sheet of Excel, and be specified in graph form easily and promptly.

Since RS-232C interface is provided as standard, the software can be used immediately if your PC has a COM port.



Application
Microsoft® Excel2000

Option

DC cut capacitor box DAC-CHR-1B

This box, combined with HOTLINE winding resistance measuring instrument, has blocking capacitors inside so that testing currents may not flow into AC line. It is surely required for measurement under energized. An appropriate capacitor must be selected in accordance with testing currents.

Specifications

- · Built-in capacitor : Electrolytic capacitor
- · Maximum-allowed-current Value :

470 μ F · · 2A, 4,700 μ F · · 7A, 47,000 μ F · · 23 A

(One-piece each built-in Protection diode Arrestor included)

- Size & Weight: $W 2 1 0 \times H 1 3 3 \times D 1 6 0 \text{ m m}$ Approx. 3 k g
- Optional capacitors for single phase, 3 phases, and large current specification etc., are available.

PT100 Temperature sensor

Ambient temperature is automatically taken in by connecting the sensor with DAC-HRT -1.

Specifications

 \cdot Standard : P T 1 0 0 Standard (C 1 6 0 4 - 1 9 8 9 Resisor)

• Temperature Measuring Range : $-5.0 \sim 1.5.0 \,^{\circ}$ C

• Accuracy and Resolution : $0 \cdot 5^{\circ}$ or less • $0 \cdot 1^{\circ}$





Thermal Printer DPU-H245AS-B03A Seiko Instruments Make

BY connecting with DAC-HRT -1 -- measured resistance value and temperature equivalents are printed out. If interval mode is used, measurement data automatically recordable for every time.

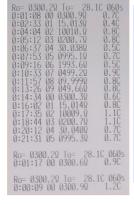
Specifications

Printing System : Admiration heat line dot system

Power Source : AC/DC adaptor (100V-240V) -- or Internal Battery (NiMH battery) 12-hour charge

· Size Weight : W 1 3 $5 \times H$ 3 $8 \times D$ 1 0 0 m m

Approx. 3 9 0 g





Printing Sample

Selection control box DAC-SCB-2

This control box is combined with DAC-HRT-1 to change a number of testing specimens one by one to measure separately.

Specifications

· The Number of Change Channels : 10 Channels

 \cdot Testing power capacity : A C 2 5 0 V 1 5 A or 4 5 0 V 1 0 A

 \cdot Power Source : A C 1 0 0 V / 2 0 0 V \pm 1 0 % 5 0 / 6 0 H z

• Size & Weight : W 4 3 0 × H 2 0 0 × D 3 8 5 m m Approx. 1 6 k g



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