

Capacitance and Tand delta Automatic Measruing Test Set for High Voltage Machines DAC-HAS-5



This instrument, model DAC-HAS-5, is used for measuring dielectric loss tangent ($\tan \delta$) of a non-grounded specimen. In addition to $\tan \delta$ (%), the voltage and the capacitance of a non-grounded electric equipment like cable, transformer, coil bar or capacitor under test can be automatically measured by applying a desired testing voltage.

The GP-IB interface, which is equipped standard with the instrument, enables you to arrange a desired measuring system.

Composition:

- | | | |
|-----|--|--------|
| (1) | Instrument main body (model DAC-HAS-5) | 1 |
| (2) | Testing cable..... | 1 |
| (3) | Cs connection cable..... | 1 |
| (4) | Grounding wire | 1 |
| (5) | Power cable | 1 |
| (6) | Instruction manual and Test Report | 1 copy |

Specifications

| | |
|---|---|
| ○ Testing voltage | 0.1 kV AC - 30 kV AC Note that accuracy is guaranteed for testing voltages of 0.50 kV or higher. |
| ○ Frequency of testing voltage | 50 Hz or 60 Hz (the frequency of the testing voltage will be automatically selected) |
| ○ Measurement range | 30 pF - 10 nF (3 ranges) 100 pF range: 30.0 pF - 100.0 pF 1 nF range: 0.100 nF - 1.000 nF 10 nF range: 1.00 nF - 10.00 nF |
| • capacitance | 0% - 100% (2 ranges) 20% range: 0.00% - 20.00% 100% range: 0.0% - 100.0% |
| • Dielectric loss tangent ($\tan \delta$) | 0 kV - 30 kV (fixed range) |
| ○ Voltmeter | \pm (1% of the reading + 2 digits) |
| ○ Accuracy | \pm (5% of the reading + 5 digits) equal to 100 pF or less \pm (0.01% + 3% of the reading + 2 digits) \pm (0.03% + 5% of the reading + 2 digits) equal to 100 pF or less \pm 3% (mean value) |
| • capacitance | GP-IB |
| • $\tan \delta$ | (100 - 240 \pm 10%) VAC, 50/60 Hz |
| • Voltmeter | $15^{\circ}\text{C} - 35^{\circ}\text{C}$ $0^{\circ}\text{C} - 40^{\circ}\text{C}$ |
| ○ Interface | 20% - 85% (non-condensing) |
| ○ Operating power supply | 430 mm \times 380 mm \times 200 mm (without protrusions) |
| ○ Environmental conditions | About 15 kg |
| • Operation-guaranteed temperature | |
| • Operating temperature | |
| • Relative humidity | |
| ○ Dimensions and mass | |
| • Dimensions (W \times D \times H) | |
| • Mass | |

Measuring Circuit

* The power supply generating the testing voltage is optional.

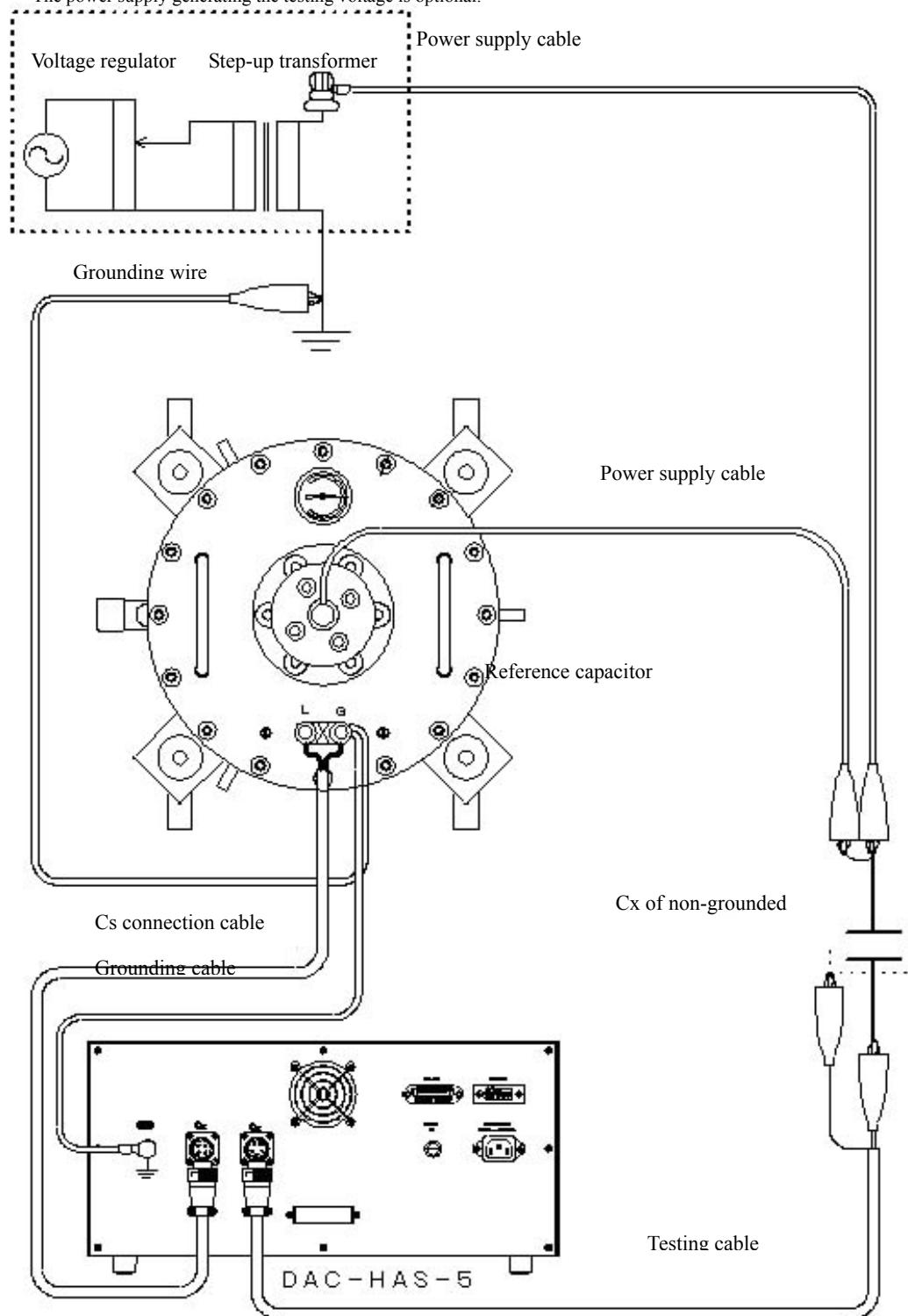


Fig. 3-1 Wiring Diagram

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