Nippon System Technology
NST

Advantages

- The static characteristics (electric characteristic) of motors can be measured collectively.
- The connection of wiring is required just once because measurement circuits are selected automatically.
- The contents and order of measurements can be set freely.
- Being saved automatically, measurement results can be recorded securely.

Specifications

Item	Description
Main functions	Measurement circuit selection, measuring instrument control, measured value evaluation, measurement result save
Winding resistance measurement	Measuring range: 0.000 mΩ to 3.5000 MΩ Measurement precision: ± 0.020% (RDG.) ± 0.007% (F.S.)
Thermistor resistance measurement	Measuring range: 0.000 mΩ to 3.5000 MΩ Measurement precision: ± 0.020% (RDG.) ± 0.007% (F.S.)
Coil inductance measurement	Display range: 0.00000μH to 9.99999GH Basic measurement precision: ± 0.05% (F.S.) Measurement frequency: 40Hz to 200kHz
Insulation resistance measurement	Measuring range: 0.5MΩ to 999MΩ (500V) / 1MΩ to 999MΩ (1,000V) Measurement precision: ± 4% (F.S., ranging from 1 MΩ to 999 MΩ) Output voltage: 500 VDC, 1,200 VDC Rated measuring current: 1 mA to 1.2 mA Measuring time: 0.3 to 999s
Withstand voltage test	Test range: 0.01 mA to 20.0 mA (Effective value) Test precision: ± 1.5% (F.S.) Output voltage: 0.2 VAC to 5.00 kVAC Frequency: 50/60 Hz selectable Testing time: 0.3 to 999 s
Resolver phase difference measurement	Measurement range: ± 180° Measurement precision: ± 0.1° (10 times continuous repetition accuracy) Number of pole pairs of motor: 2 to 9 Resolver double axial angle: 1 to 9 Resolver transformer ratio: 0.14 to 0.66 Motor inductive voltage: 100 V maximum
Impulse test	Testable inductance range: 10μH to 100mH Output voltage: 100 V to 4,200 V Sampling: 200 MHz / 100 MHz / 50 MHz / 20 MHz / 10 MHz
Input voltage, rated	100 VAC; 50/60 Hz; 1,000 VA
External dimensions	W1,000 mm × D800 mm × H1,400 mm (not including projections, such as casters and adjuster pads)
Weight	320kg (when fully optioned)

Making motor inspection simple and efficient.

Motor Electric Inspection Equipment

ME-1000

< Development / Manufacturing >
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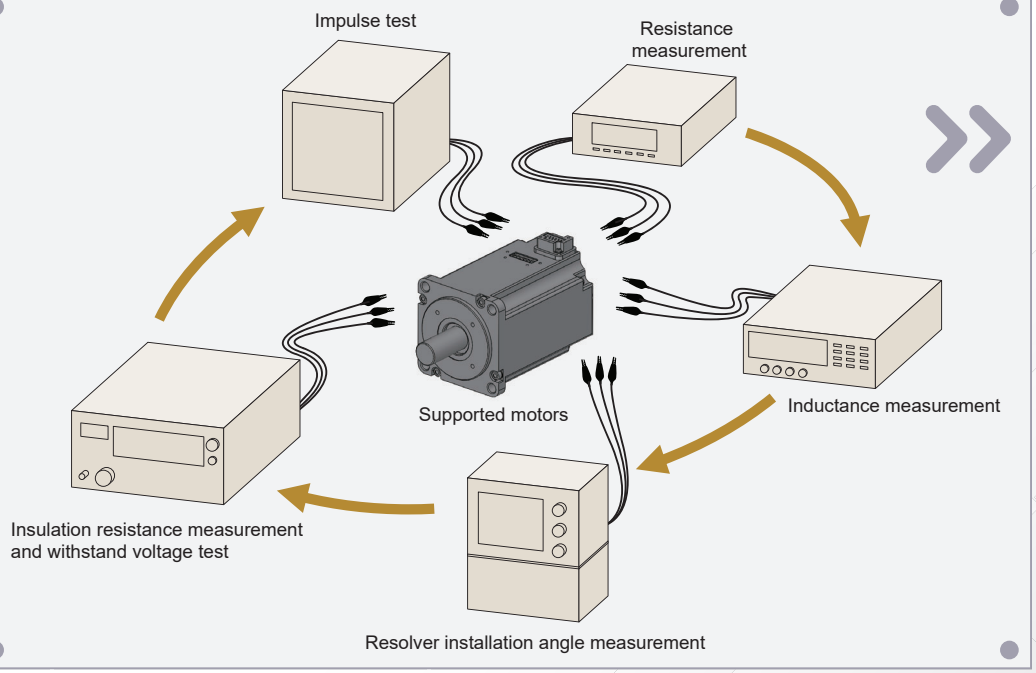
Comparison with Conventional Measurement Method.

Existing method



Wiring needs reinstalling for each measurement.

Settings of measuring instruments are changed manually.

Measurement results are written with human hands.

ME-1000

Executes all the measurements collectively!

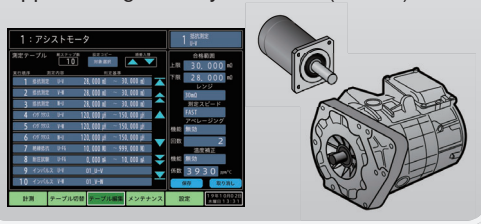
Automatic selection The connection is required just once because measurement circuits are selected automatically.

Automatic setting The settings of measuring instruments can be made automatically.

Automatic recording The automatic save function allows data to be recorded securely.

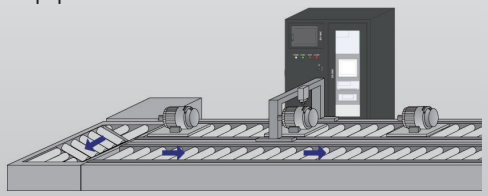
Highly flexible measurement settings

Since the contents and order of measurements can be set freely, only a single unit is able to support a large variety of motors (stators).



External control function

Being externally controlled via Ethernet and IO, the machine can be included as a part of equipment.



Easy-to-operate touch panel

A large 10-inch touch panel is adopted.

Easy installation

Being integrated, the control panel and the measuring instrument rack can be moved with casters on the main body.
Being supplied with power from a 100 VAC outlet, the machine can be installed anywhere.