

## AC Partial Discharge Tester with Micro Wave PD Sensor Microwave patch antenna system

The partial discharge is not influenced by high sensitivity of the testing circuit !!

AC HV power supply  
+  
PD detection antenna



As for the insulation examination of a transformer coil, tor or a transformer coil,

AC resist pressure test and a partial discharge

test are done simultaneously, even without special knowledge,

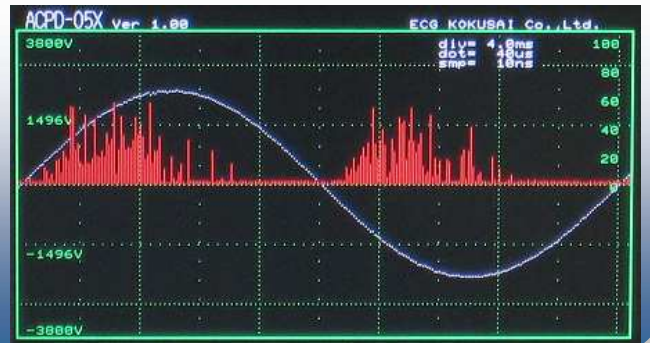
it is possible to perform a quality judging in high sensitivity by easy operation!, As the use of inverter motor coil has

been initiated, its use will increase from now on . This equipment is a must for testing coils such as

household appliance, car, an industrial commodity !!!

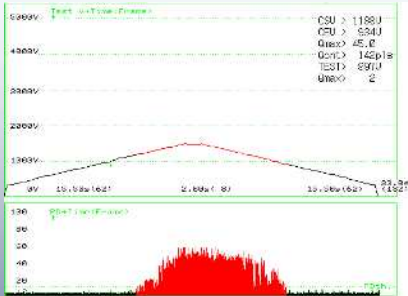
### Easy to understand screendisplay

The graph of applied voltage (AC) and electric discharge signal is displayed on the screen in real time. The condition of electric discharge generating is observable during an examination. Moreover, the memory of the graph under examination is also memorized into the main part after display and judgment are possible.



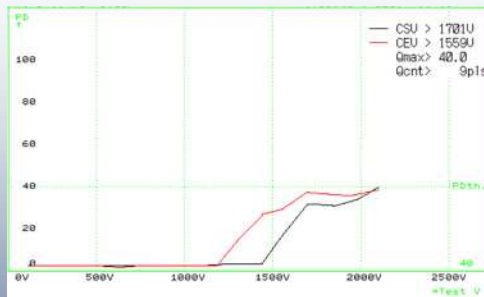
### variegated graph - analysis function

Applied voltage PD characteristic graph



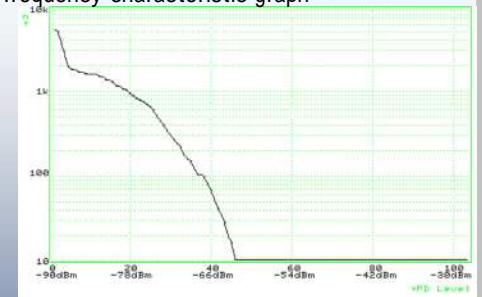
Transition of the voltage value during AUTO examination and electric discharge level display. The electric discharge exceeding a threshold value level is displayed in red.

Applied voltage Qmax characteristic graph



The electric discharge level in the applied voltage during AUTO test is displayed. It is graph-ization about partial discharge inception voltage (CSV) and partial discharge extinction voltage (CEV).

Electric discharge generating accumulation frequency characteristic graph



The electric discharge generating accumulation frequency characteristic in the electric discharge level generated during AUTO test is displayed.

## Feature

The electromagnetic waves generated from partial discharge with a microwave patch antenna system are detected directly.

Installing an antenna near the test coil, high sensitivity partial discharge test can be performed

Since handling is easy, the introduction to production line can be facilitated.

The automation of the partial discharge test becomes possible.

Working efficiency improves by the convenient function required for evaluation of a partial discharge test. Break down voltage(CSV), electric discharge extinction voltage (CEV), electric discharge level (PDpeak), electric discharge occurrence probability confirmation k (PDpuls), etc.

Since the electric discharge signal is indicated by a waveform, it is possible to use it visually, clearly and easily.

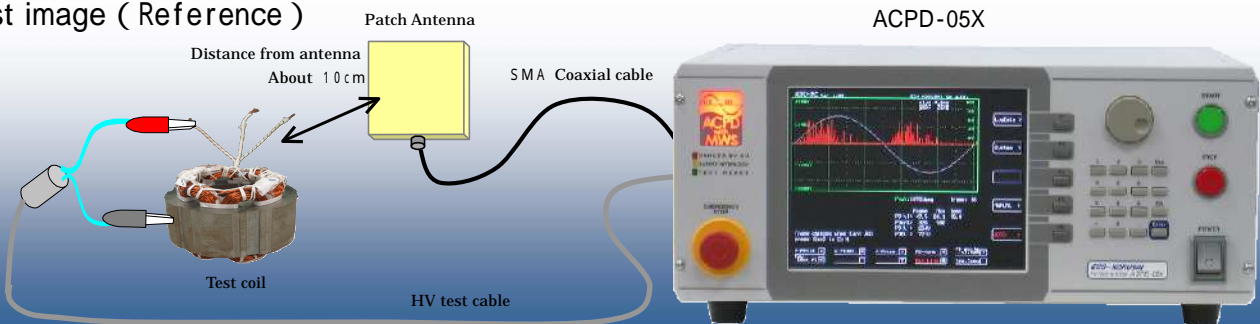
## Usage

Related motor Inverter motor · Hybrid car power motor · Automotive mot

Related transformer HV transformer for power supply, Switchingpowersupply transformer for household appliances

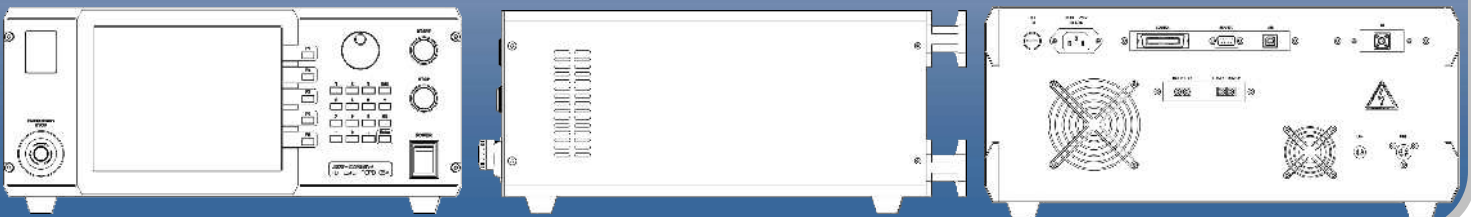
Others Power semiconductor · Insulated film · Evaluation of the charge of an insulation material, etc.

## Test image ( Reference )



## Specification and an outline view

Power supply	Test voltage & capacity	Maximum 5000Vrms 500VA
	Minimum variable step	4Vrms
	Test frequency	50Hz/60Hz ( Set up at 1Hz step is possible in 50 ~ 200Hz)
Partial discharge inspection	Detection sensitivity	-90 ~ -30dBm
	Detection result display	-90 to -30dbm indicates as 100 level
	Detection charge range	50pC or more as a relative level.
	Antenna cable	Standard 2m (SMA coaxial cable)
Voltage measurement	Voltage display	0 ~ 5000Vrms (Effective value )
	Measurement accuracy	± 1.5% of reading
Current leak detection	Current disruption	1 ~ 25mA(1mA step) or 100mA
General	Input power supply V.	AC100 ~ 240V ± 5% 50Hz/60Hz 10A
	Temperature/ humidity	23 ± 5 20% ~ 80%RH
	Size/Weight	W430 × H177 × D442 About 22kg
	External interface	Parallel I/O, RS-232C, USB (Test control, test data input and output)



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