

Motor Coil/Partial Discharge/Insulation Evaluation System

Model: PD ONE



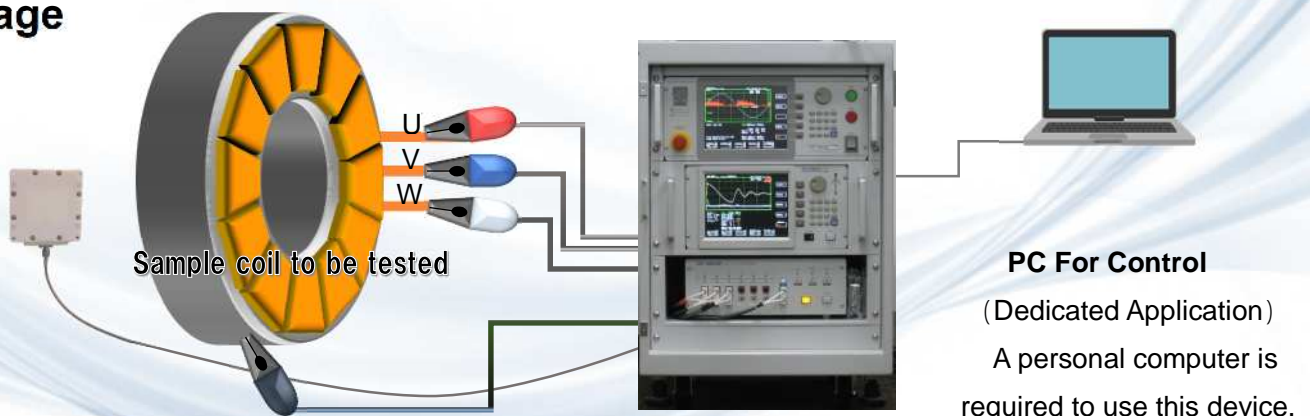
Characteristics

Undertaken partial discharge tests, AC withstand voltage tests, and impulse tests is necessary for insulation testing of industrial motors, EV / HEV motors, etc.

A voltage application circuit can be selected arbitrarily with a 6CH switching circuit.

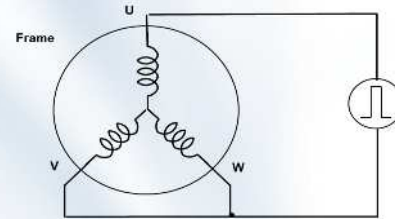
The partial discharge test supports both AC and impulse, and can measure PDIV and PDEV respectively. Detection is a microwave patch antenna.

Image



Test circuit

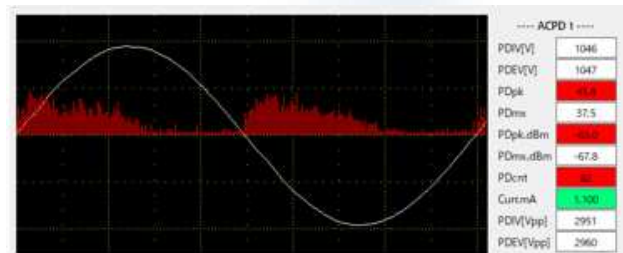
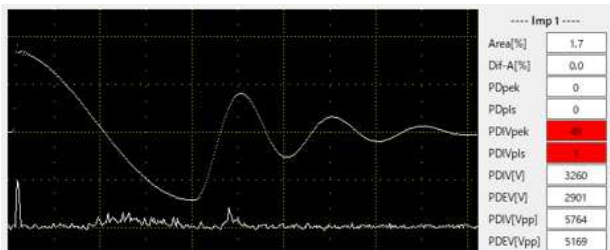
Test circuit can be arbitrary set between phases, turns, grounds, etc.



Step	Test	Channel						Page	Model	Result
		--1--2--3--4--5--6--G--								
Imp1	ON	H	L	L	-	-	-	1	1	FAIL
Imp2	ON	L	H	L	-	-	-	1	2	FAIL
Imp3	ON	L	L	H	-	-	-	1	3	FAIL
Imp4	ON	H	L	L	-	-	L	1	4	FAIL
Imp5	ON	L	H	L	-	-	L	1	5	FAIL
Imp6	ON	L	L	H	-	-	L	1	6	FAIL

AC test and impulse test can be performed 6 times each. The Hi / Low settings of terminals 1 to 6 and the GND terminal can be combined freely and can be checked on the screen.

Test screen



Test conditions are created on a PC and stored in the PC. Test results (judgment / numerical data) and waveform images can also be saved on a PC.

Equipment configuration

AC partial discharge test section, impulse partial discharge test section, 6CH circuit switching section, microwave sensor unit, MWS switch, serial port converter, PC (win10, 1 USB port)

Specification

AC partial discharge test section	Test voltage/Capacity	5000Vrms 500VA
	Frequency	50Hz/60Hz (~200Hz)
	Leakage current detection	1 ~ 25mA 1mA step OR 100mA
	Test contents	Partial discharge generation voltage (PDIV), extinction voltage (PDEV), discharge level / occurrence probability determination, leakage current (cut-off)
Impulse partial discharge test section	Test voltage	500V~5000V (100Vstep)
	Test contents	Area comparison, area difference comparison, partial discharge generation voltage (PDIV) / extinction voltage (PDEV), discharge level / occurrence probability determination
6CH circuit switching part		Hi / Low 6CH + GND each setting
General /Environment	Primary power supply	Single phase 100V / 200V / 220V selection \pm 5% 50 / 60Hz
	Power consumption	1000VA or less
	Usage environment	Temperature: 15 ~ 40 °C Humidity: 10 ~ 65% RH (no condensation)

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