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**INDUSTRY STANDARD OF THE
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**Calibration Specification for Partial Discharge Testers Based
Pulse Current Method
(English Translation)**

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Table of Contents

Introduction (III)	
1 Scope (1)	
2 References (1)	
3 Terms and units of measurement (1)	
3.1 Pulse current method partial discharge tester (1)	
3.2 Impulse response of partial discharge tester (1)	
3.3 Calibration pulse generator (1)	
3.4 Apparent charge (1)	
3.5 Pulse resolution time (1)	
3.6 Pulse repetition rate (1)	
3.7 Measurement Sensitivity (1)	
3.8 Lower limit frequency f1 and upper frequency f2 (2)	
3.9 Double pulse generator (2)	
4 Overview (2)	
5 Metrological characteristics (3)	
5.1 Upper and lower cutoff frequency (3)	
5.2 Apparent charge amplitude (3)	
5.3 Shift Impulse Response Gain Value (3)	
5.4 Positive and negative impulse response asymmetry (3)	
5.5 Low repetition rate impulse response (3)	
5.6 Pulse resolution time (3)	
5.7 Measurement Sensitivity (3)	
5.8 Pulse repetition rate (3)	
5.9 Number of pulses (3)	
5.10 Pulse acquisition capability (3)	
5.11 Calibration pulse generator (3)	
5.12 Safety performance (4)	
6 Calibration conditions (4)	
6.1 Environmental conditions (4)	
6.2 Measurement standards and other equipment (4)	
7 Calibration items and calibration methods (4)	
7.1 Calibration items (4)	

7.2 Calibration method (5)

8 Calibration results (9)

8.1 Calibration Certificate (9)

8.2 Uncertainty Rating (9)

9 Re-school time interval (9)

Appendix A Cutoff Frequency and Apparent Charge Amplitude Measurement Uncertainty Evaluation Example (10)

Appendix B Calibrate Original Record Format (13)

Appendix C Calibration Certificate Inside Page Format (16)

9 Re-school time interval (9)

Appendix A Cutoff Frequency and Apparent Charge Amplitude Measurement Uncertainty Evaluation Example (10)

Appendix B Calibrate Original Record Format (13)

Appendix C Calibration Certificate Inside Page Format (16)

Introduction

This specification is based on JJF 1071-2010 "national measurement calibration standard preparation rules", JJF 1001-2011 "pass Metrological terms and definitions ", JJF 1059.1-2012" measurement uncertainty assessment and representation "compiled from.

This specification is the first release.

Standard Specification for Calibration of Partial Discharge Tester for Pulsed Current

1 Scope

This specification applies to the pulsed current method, measuring the frequency range of 10kHz ~ 500kHz between the partial discharge test Calibration of the test instrument.

2 reference file

This specification refers to the following documents.

Partial discharge measurement GB/T 7354-2003 for dated references, only the dated edition applies to this specification; references that are not dated , The latest version (including all modifications) applies to this specification.

3 terms and units of measurement GB/T 7354-2003 Definitions and the following terms and definitions apply to this specification.

3.1 pulsed current method partial discharge tester

pulse current method based partial discharge tester Through the acquisition of pulse current signal to achieve electrical equipment, local discharge measurement of special equipment.

3.2 Impulse response of partial discharge tester pulse response of partial discharge tester when the measuring circuit of the partial discharge tester injects the calibration pulse signal, its corresponding pulse output is displayed.

3.3 Calibration pulse generator calibrated pulse generator by the voltage amplitude of U_0 pulse voltage generator and the injection capacitor C_0 with the composition, can produce a known charge amount q_0 of the pulse current generator.

3.4 apparent charge amount apparent charge [GB/T 7354-2003, definition 3.3.1] the apparent charge is equal to the specified test circuit, if in a very short period of time between the two sides of the sample the amount of readings on the measuring instrument is the same as that of the PD circuit itself. The apparent charge is usually used in the library (pC).

3.5 pulse resolution time [GB/T 7354-2003, definition 3.9.5] the shortest time between successive pulses of the same duration and the same amount of charge and the same amount of charge Interval, the amplitude of the impulse response in this time interval is not greater than 10% of the amplitude of a single pulse.

The pulse resolution time is generally inversely proportional to the bandwidth Δf of the measurement system and is also a measure of the system.

The ability to characterize.

3.6 pulse repetition rate [GB/T 7354-2003, definition 3.3.2] the ratio of the total number of localized pulses recorded in the selected time interval to the time interval.

Note: Actually only consider the pulse above the specified amplitude or within the specified amplitude range.

3.7 Measurement sensitivity detectable sensitivity