

# Differential-Mode Conducted Disturbances Simulator

## DMS 200

## Datasheet



### In Compliance with

- > IEC/EN 61000-4-19
- > IEC/EN 60255-22-7
- > JJF 1245.4-2019

### Introduction

The DMS 200 conducted, differential mode disturbances simulator is controlled by CoreLab control software, which is capable of conducting tests as per IEC 61000-4-19, IEC/EN 60255-22-7 and JJF 1245.4-2019. Together with different optional accessories, every test can be conducted as per different standard requirement.

### Features

- > Frequency range 2 kHz~165 kHz;
- > Modulated Frequency: 0 ~ 1000 Hz
- > Frequency step: liner, logarithmic or fixed;
- > CoreLab control software makes test operation easy;

### Application Areas

- > Household appliances
- > Industries

Technical Parameters (Differential Mode Voltage Disturbances test)	
Frequency Range	2 kHz~150 kHz
Waveform	Sinusoidal, Total Harmonic Distortion (THD) <5%
Open Circuit Voltage	0.1 V ~20 V
Load Impedance	10 Ω, ±30%

Technical Parameters (Differential Mode Current Disturbances test)	
Frequency Range	2 kHz~150 kHz
Max. Current	5 A
Load Impedance	1 Ω, ±0.3 Ω
BNC output	10:1 (0.1 V/A)

General Parameters	
Power Supply	AC 110/220 V, ±10%, 45 Hz~65 Hz
Ambient Temperature	15 °C ~ 35 °C
Dimension	4U
Weight	Approx. 20 kg

Accessories	
User Manual, Testing line, Fuse, ground line, RF cable, network cable, power line	

Options	
1.CoreLab PC Control Software	Support Windows 7 and higher; easy to use; clean and beautiful UI; with powerful operating function and standard test library, customized automatic testing configuration can be realized; generating test reports flexibly.
2.Differential-mode Current Test Module WCT 20	Frequency:2 kHz ~ 150 kHz Max. Current: 5 A Max. Voltage: <22 V Impedance: 1 Ω±0.3 Ω
3.Coupling/decoupling Networks CDN419M3-32	EUT voltage: single-phase 3-line, 32 A, 250 V AC/DC Frequency: 2 kHz~150 kHz
4.Coupling/decoupling Networks CDN419M4N-32	EUT voltage: three-phase 4-line, 32 A, Line-ground, 250 V AC/DC Frequency: 2 kHz~150 kHz
5.Balanced / unbalanced impedance converter Balun50/10	Characteristic impedance: 50 Ω / 10 Ω; Frequency: 2 kHz~150 kHz; Max input voltage (V <sub>pp</sub> ): 400 V
6.Differential-mode Voltage Test Module RJJF-100	100 Ω (Current Range: 10 mA ~ 300 mA)
7.Micro-second pulse transformer TPT-600-2	Used for differential-mode voltage test. Max. unsaturated voltage: 600 V Max. pulse width: 15 μs Max. EUT current (A): 30 Max. exciting current: ≤0.11 A
8.Differential-mode Voltage Test Module R419-10	10 Ω



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