



Vehicle Transient Simulator

VTS 200

- Ford EMC-CS.1
- FMC1278

Features

- > Easily replaceable relays
- > Fixed repetition time and pseudo-random timing
- > Compatible with coupling test fixture

Introduction

The VTE 200 vehicle transient simulator complies with Ford EMC-CS.1 and FMC1278. It generates standardized pulses via components defined in the above standards, including CI 220 A1, A2-1, A2-2, C-1, C-2, CI 260 F, as well as RI 130 A2-1 and A2-2. For RI 130 testing, the generator is equipped with a BNC coaxial output port for connection to dedicated test fixtures required by relevant tests.

Application Areas



Technical Parameters

Input Voltage	Max 13.5 V
Output Current	Max 10 A ~ 20 A (standard 10 A relay)
Test Mode	By sequence or infinite loop
Resistor R1	51 Ω , 25 W
Resistor R2	220 $\Omega \pm 5\%$, 2 W
Resistor R3	33 $\Omega \pm 5\%$, 10 W
Resistor R4	6 $\Omega \pm 5\%$, 50 W
Capacitor C1	100 nF capacitor, 400 V
Inductor L1	5 μ H inductor
Inductor L2	100 mH inductor
Diode D1	Zener diode, 39 V, 5 W
Transistor Q1	NPN transistor
SW0 - SW4	Single Throw Switch
RLY1	12 V AC relay, NC contact used (Potter & Brumfield KUP-14A15-12)

Test Procedures

As Per EMC-CS.1 FMC1278	CI 220: A1, Mode M1, M2
	CI 220: A2-1, Mode M1, M2, M3
	CI 220: A2-2, Mode M1, M2, M3
	CI 220: C-1, Mode M2, M3
	CI 220: C-2, Mode M2, M3
	CI 260: F
	RI 130: A2-1, Mode M2 and M3
	RI 130: A2-2, Mode M2 and M3
	Specific type of test clamp shall be used

General Parameters

Power Supply	12 V battery or APS/APG series
Fuse	20 A, for DUT power supply current
Protection	Over-voltage protection and reverse polarity protection
Dimension	335 (W)*310 (H)*195 (D) mm
Weight	Approx. 7.2 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	35% ~ 85%RH (no condensation)

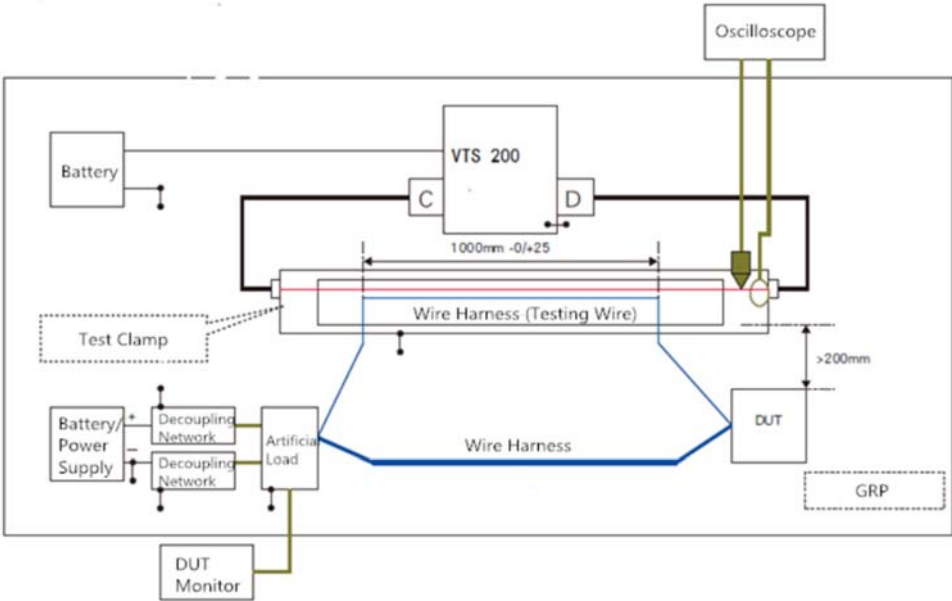
Standard Accessories

Test Cable, Fuse, Grounding Wire, BNC Cable, User Manual

Optional Accessories

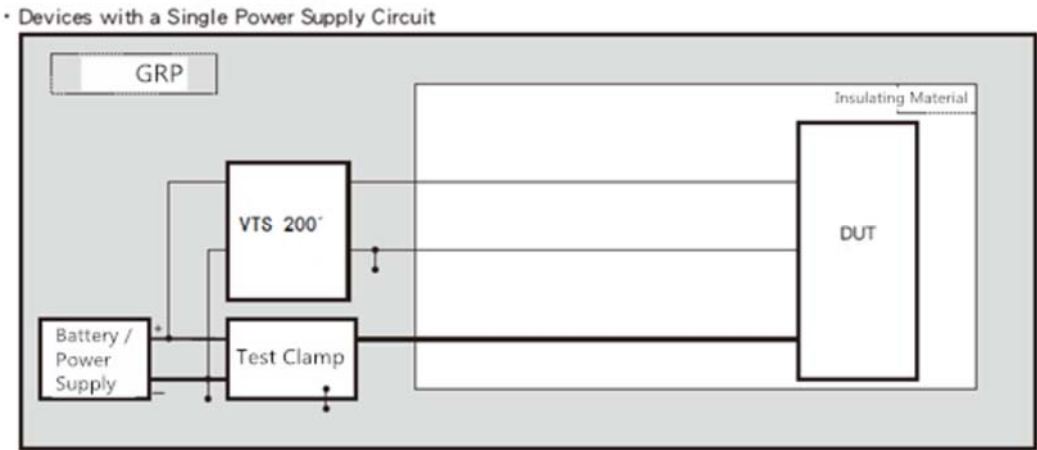
1	Test Clamp	Model: TF 1315 Dimension: 1,345*110*152 mm Weight: 5 kg	
2	Relay	Model: KUP-14A15-12 Switching voltage: 12 V Switching current: 10 A Contact Form: 3 PDT	

Test Setup RI 130



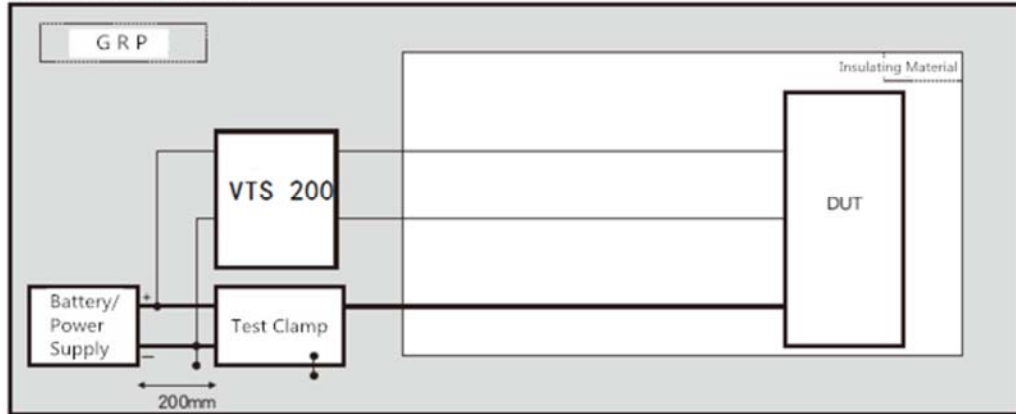
Test Setup CI 220

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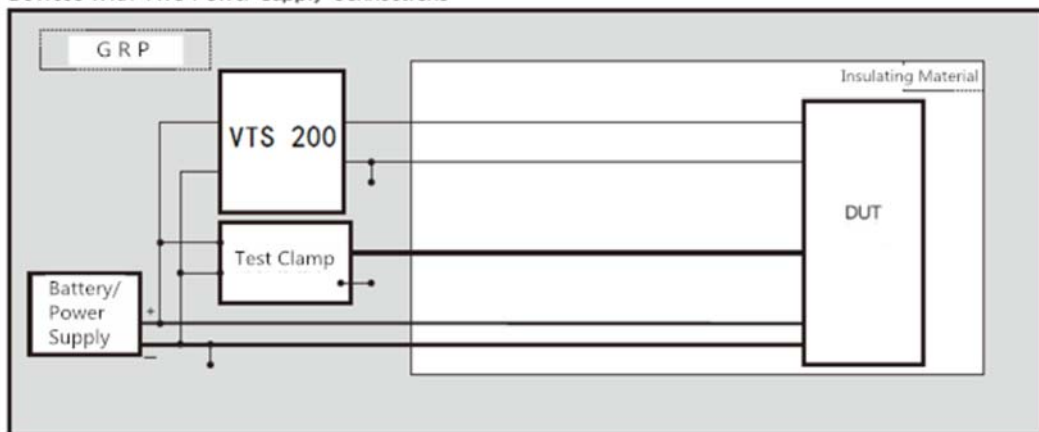


Test Setup CI 220

• Devices with Input Circuit



• Devices with Two Power Supply Connections



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