CAR PG 2804

LOAD DUMP GENERATOR

EMC-Test Equipment for electrical installation of vehicles:

Pulses	Waveform	Ri
Pulse #5	10 / 400 ms	0.4 Ω, 0.5 Ω
Test A	10 / 350 ms	0.8 Ω, 1 Ω
Test B	10 / 200 ms	2 Ω
	10 / 100 ms	4 Ω
	10 / 40 ms	8 Ω

According to
ISO 16750-2

Compact EMC test unit designed for testing electromagnetic immunity of the electrical installation of vehicles and components against supply line transients.

PG 2804 includes generation of pulses #5 / Test A and Test B. It is designed to be connected to the power supply interface of the CAR-SYS.
The generator features a microprocessor controlled user interface and a 7” touch screen unit for ease of use. The microprocessor allows the user to execute either standard test routines or a “user defined” test sequence. The test parameters which are shown on the built in display, are easily adjusted by means of touch screen.
A standard USB port provides the ability to print a summary of the test parameters to a USB stick.
Moreover, all generator functions may be computer controlled.
The software program CAR-REMOTE allows full remote control of the test generator via Ethernet interface as well as documentation and evaluation of test results, accordingly to the IEC 17025. To record definite impulses, it is equipped with an Impulse Recording Function (IRF).
It is characterized by its compact design and easy operation.

Options	CAR PG 2804
PC software for remote control	**CAR-REMOTE**
CAR Remote software test package, running under Microsoft Windows, for the external control of the device	
(XP, WIN7, WIN10) includes a Ethernet PC Interface	

TECHNICAL SPECIFICATIONS	CAR PG 2804	
Mainframe		
Microprocessor controlled touch panel	7”, capacitive	
Ethernet Interface for remote control of the generator	built-in	
Interface for saving reports	USB	
External Trigger input / output	Switch / 10 V	
Connector for external safety interlock loop	24 V =	
and external red and green warning lamps acc. to VDE 0104	24 V=, 40 mA	
Mains power	230V, 50/60 Hz	
Dimensions: desk top case W * H * D	450*330*500 mm³	
Weight	35 kg	
Pulse generator		
Charging voltage, adjustable	0 – 202 V ±10 %	
Max. storage energy	800 Wsec	
Repetition time (linear to the charging voltage)	min:10 sec - max: 20 sec	
Surge Pulse #5/ Test A acc. to ISO 16750-2		
Voltage – System	**12V**	**24V**
source resistance, switch able Ri 0.4 / 0,5 / 0.8 / 1 / 2 / 4 / 8 Ω	0.4 - 4 Ω	1 - 8 Ω
External input for source resistance (R_{EX} + 0.4Ω)	2 x 4mm plug - R_{EX}: min Power 160W	
polarity	positive	
Amplitude (±10%)	+25 - 202 V	
rise time, tr (+0/-50%)	10 ms	
pulse duration, switchable: 400 / 350 / 300 / 250 / 200 / 150 /100 / 40 ms (±20%)	40-400 ms	100-350 ms
Surge Pulse #5/ Test B acc. to ISO 16750-2		
Clamping Voltage Up via relays switchable (Us* = U_A + Up)	21, 30V – 140 V in 22V steps	
switchable ext. connection for costumer specific suppressor diodes		

Waveform: Test A