

# LOAD DUMP GENERATOR

## PG 2804

**EMC-Test Equipment**  
for electrical installation of  
vehicles:

**acc. to ISO 16750-2**

**Pulse #5 / Test A / Test B**

**Waveform:**

10 / 400 ms, 200 V  
10 / 200 ms, 200 V  
10 / 100 ms, 180 V  
10 / 50 ms, 150 V

**Ri = 0.5 / 1 / 2 / 4 / 8 Ω**



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-TESTER.

It features a microprocessor controlled user interface and a display unit. The user can use the standard test routines or define his own test sequence

The test parameters are set and displayed via a 5" touch screen display and can be recorded during the test on a USB stick.

The software program CAR-remote permits the PC control of the generator via Ethernet and fiber optic and also allows the standardized documentation according to IEC 17025 and the evaluation of test results.

It is characterized by its compact design and easy operation.

| Technical specification:  | PG 2804                      |                                 |
|---|------------------------------|---------------------------------|
| <b>Mainframe:</b>   |                              |                                 |
| Microprocessor controlled touch panel   | 5", 800X480, 24 bit          |                                 |
| Optical Ethernet Interface for remote control of the generator                                  | optional                     |                                 |
| Interface for saving reports  | USB                          |                                 |
| External trigger input /output  | 10 V at 1 k $\Omega$         |                                 |
| Connector for external safety interlock loop  | 24 V =                       |                                 |
| External red and green warning lamps acc. to VDE 0104   | 230 V, 60W                   |                                 |
| Mains power   | 230 V, 50/60 Hz              |                                 |
| Dimensions desk top case, W * H * D   | 450*320*180 mm <sup>3</sup>  |                                 |
| Weight  | 35kg                         |                                 |
| <b>Pulse generator:</b>   |                              |                                 |
| charging voltage, adjustable  | $\pm$ (0-200) V $\pm$ 10%    |                                 |
| max. stored energy  | 800 Wsec                     |                                 |
| max. charging time  | 1 sec - 10 sec               |                                 |
| <b>Surge Pulse #5 / Test A</b><br>acc. to ISO 16750-2   |                              |                                 |
| Voltage - System  | <b>12V</b>                   | <b>24V</b>                      |
| source resistance, switch able Ri   | 0,5 / 1 / 2 / 4 / 8 $\Omega$ | 0.5 - 4 $\Omega$ 1 - 8 $\Omega$ |
| polarity  | positive                     |                                 |
| amplitude   | +26-100 V                    | +70-200 V $\pm$ 10%             |
| rise time, tr   | 5-10 ms                      | 5-10 ms +0/-50%                 |
| pulse duration, switch able, td   | 400 / 200 / 100 / 50 ms      | 50-400 ms      100-350 ms       |
| <b>Surge Pulse #5 / Test B</b><br>acc. to ISO 16750-2   |                              |                                 |
| Clamping Voltage via bridge plug  | 22 – 178 V in 22V steps      |                                 |
| <b>OPTION</b>   |                              |                                 |
| Software CAR_Remote for remote control<br>incl. 5 m fibre-optic cable and Ethernet PC-interface |                              |                                 |

### Wave form: Test A

