PFS 200N SERIES
AUTOMOTIVE POWER FAIL SIMULATOR

FOR TESTS ACCORDING TO...

BMW GS 95003-2
BMW GS 95024-2-1
Chrysler CS-11809 (2009)
Chrysler CS-11979
Chrysler PF-9326
Cummins 14269 (982022-026)
DaimlerChrysler DC-10615
DaimlerChrysler DC-10842
DaimlerChrysler PF-10541
Fiat 9.90110
Ford EMC-CS-2009.1
Ford ES-XW7T-1A278-AB
Ford ES-XW7T-1A278-AC
Ford WDR 00.00EA
Freightliner 49-00085
GMW 3172
Hyundai/Kia ES 95400-10, Rev. D
Hyundai/Kia ES 96100-02 (2006)
Hyundai ES 39110-00
ISO 21848:2005
ISO 16750-2
...

HIGHLIGHTS

- Standalone test generator for voltage dips and interruptions
- Rise/fall time <1us
- Electronic short-circuit protection
- Rated voltage 80V DC
- Front panel operation
- Standard Test routines
- USB and GPIB interfaces

APPLICATION AREAS

AUTOMOTIVE

PFS 200N - AUTOMOTIVE POWER FAIL SIMULATOR FOR VOLTAGE DIPS AND INTERRUPTIONS

The PFS 200N Automotive Power Fail simulator is used to comply with standard requirements, mainly from vehicle manufacturers, to perform fast voltage dips and drops (micro-interruptions). Some standards specify very fast rise and fall times below 1 microsecond by an electronic switch.

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**BENEFITS**

The PFS 200N is a standalone tester providing an electronic switch to perform voltage dips and drops (micro-interruptions) with fast rise and fall times of 1 microsecond. For voltage dips two DC voltage supplies are required while for voltage drops (micro-interruptions) only one DC voltage supply is needed. The PFS 200N has the ability to control one external DC voltage source by means of an analog DC signal. The PFS 200N can also be easily integrated into a complete test set-up. Operation is possible both manually and by software via USB or GPIB. Fail inputs allow to control an ongoing test sequence based on the status of the DUT. Pre-programmed Standard Test routines allow highest user convenience. Still the PFS 200N offers the Quick Start test routine where parameters can be changed on-line during a test to evaluate the susceptibility level of an individual DUT.

**OPERATION**

**EASY TO OPERATE**

Front panel menu and function keys enable the user to program his test routines quickly and accurately. The cursor allows fast control of all test parameters of the programmed routine, thus test procedures are simplified and confidence is generated that every step is carried out correctly.

**SOFTWARE**

**ISO.CONTROL - SOFTWARE FOR CONTROL AND DOCUMENTATION**

Outstanding user convenience, clearly structured windows and operation features and the EM TEST standards library along with the flexibility to generate user specific test sequences very easily are the main features of iso.control software. The software is automatically configured according to the connected EM TEST generators. iso.control software covers international/national standards and most of the manufacturer standards and is continuously updated. Extensive reporting capabilities help the user to create test reports that meet international requirements. iso.control is supported by Windows XP, Windows Vista, Windows 7 and Windows 8. Remote control is achieved either via USB or GPIB. iso.control supports a wide range of GPIB cards of National Instruments.

**AUXILIARY DEVICES**

**RDS 200N - EXTERNAL CONTROLLED DC POWER SUPPLY**

In order to generate any voltages between the level of the battery supply and zero for voltage drops (micro-interruption) tests a controlled DC supply is needed. The RDS 200N perfectly fits these requirements and is controlled by the analog DC output signal of the PFS 200N. The RDS 200N is usually connected to the PF2 input of the PFS 200N.
### TECHNICAL DETAILS

#### PFS 200N MODELS

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<th>Description</th>
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<td>PFS 200N30</td>
<td>Power Fail Simulator 80V/30A</td>
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<td>PFS 200N50</td>
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<td>PFS 200N100</td>
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<td>PFS 200N200</td>
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#### TECNICAL DATA PFS 200N30

- **DUT voltage**: Max. 80V for channels PF1/PF2
- **DUT current**: Max. 30A for channels PF1/PF2
- **Switching time**: 1us (rise/fall time)
- **Peak current**: 70A for 500ms
- **Safety**: Short circuit protection

#### TECNICAL DATA PFS 200N50

- **DUT voltage**: Max. 80V for channels PF1/PF2
- **DUT current**: Max. 50A for channels PF1/PF2
- **Switching time**: 1us (rise/fall time)
- **Peak current**: 100A for 500ms
- **Safety**: Short circuit protection

#### TECNICAL DATA PFS 200N100

- **DUT voltage**: Max. 80V for channels PF1/PF2
- **DUT current**: Max. 100A for channels PF1/PF2
- **Switching time**: 1us (rise/fall time)
- **Peak current**: 150A for 500ms
- **Safety**: Short circuit protection

#### TECNICAL DATA PFS 200N150

- **DUT voltage**: Max. 80V for channels PF1/PF2
- **DUT current**: Max. 150A for channels PF1/PF2
- **Switching time**: 1us (rise/fall time)
- **Peak current**: 200A for 500ms
- **Safety**: Short circuit protection

#### TECNICAL DATA PFS 200N200

- **DUT voltage**: Max. 80V for channels PF1/PF2
- **DUT current**: Max. 200A for channels PF1/PF2
- **Switching time**: 1us (rise/fall time)
- **Peak current**: Greater than 200A
- **Safety**: Short circuit protection

#### TRIGGER

| Automatic | Automatic release of the events |
| Repetition rate | 100ms to 999s |
| Dip/drop duration | 1us to 10s |
| Manual | Manual release of a single event |
| CRO Trigger | Trigger for oscilloscope, +15V edge |
| External | External release of a single event |

#### TEST ROUTINES

- **Quick Start**: Immediate start; easy-to-use and fast
- **Chrysler**: Voltage Drop Out, Voltage Dig, Mechanical Switching
- **Ford**: Drop Out High, Drop Out Low, Drop Out Single, Power Dip
- **RSA/Renault**: Micro interruptions
- **Service**: Service, setup, self test

#### GENERAL DATA

- **Dimensions, weight**: 19”/3HU, approx. 15kg; 19”/6HU, approx. 18kg for PFS 200N150 and PFS200N200
- **Supply voltage**: 115V/230V +10/-15%
- **Fuses**: 2 x T 1AT

#### INTERFACE

- **Interface**: USB
- **Parallel interface**: IEEE 488, addresses 1 to 30
- **Analog interface**: 0Vdc to 10Vdc to control an external dc source (e.g. RDS 200N)

#### OPTIONS

- **iso.control**: Software to control the test, including standard library, test report facility and data conservation generator
COMPETENCE WHEREVER YOU ARE

CONTACT EM TEST DIRECTLY

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Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Subject to change without further notice.