

# PFS 200N SERIES

## AUTOMOTIVE POWER FAIL SIMULATOR



### FOR TESTS ACCORDING TO ...

- › BMW GS 95003-2
- › BMW GS 95024-2-1 (2010-01)
- › 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
- › Iveco 16-2103 Rev.15 (2010)
- › EMC-CS-2010JLR V1.1 (2011-01)
- › ...

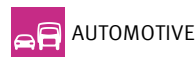
### PFS 200N - AUTOMOTIVE POWER FAIL SIMULATOR FOR VOLTAGE DIPS AND INTERRUPTIONS

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 and an electronic switch.

### HIGHLIGHTS

- › **Standalone test generator for voltage dips and interruptions**
- › **Rise/fall time <1µs**
- › **Electronic short-circuit protection**
- › **Rated voltage 60V DC**
- › **Front panel operation**
- › **Standard Test routines**
- › **USB and GPIB interfaces**

### APPLICATION AREAS



## TECHNICAL DETAILS

### 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. ISMISO is supported by Windows 98, Windows 2000, Windows XP, Windows Vista and Windows 7. 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

PFS 200N30	Power Fail Simulator 60V/30A
PFS 200N50	Power Fail Simulator 60V/50A
PFS 200N100	Power Fail Simulator 60V/100A
PFS 200N150	Power Fail Simulator 60V/150A
PFS 200N200	Power Fail Simulator 60V/200A

### TECNICAL DATA PFS 200N30

DUT voltage	Max. 60V 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. 60V 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. 60V 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. 60V 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. 60V 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 td	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

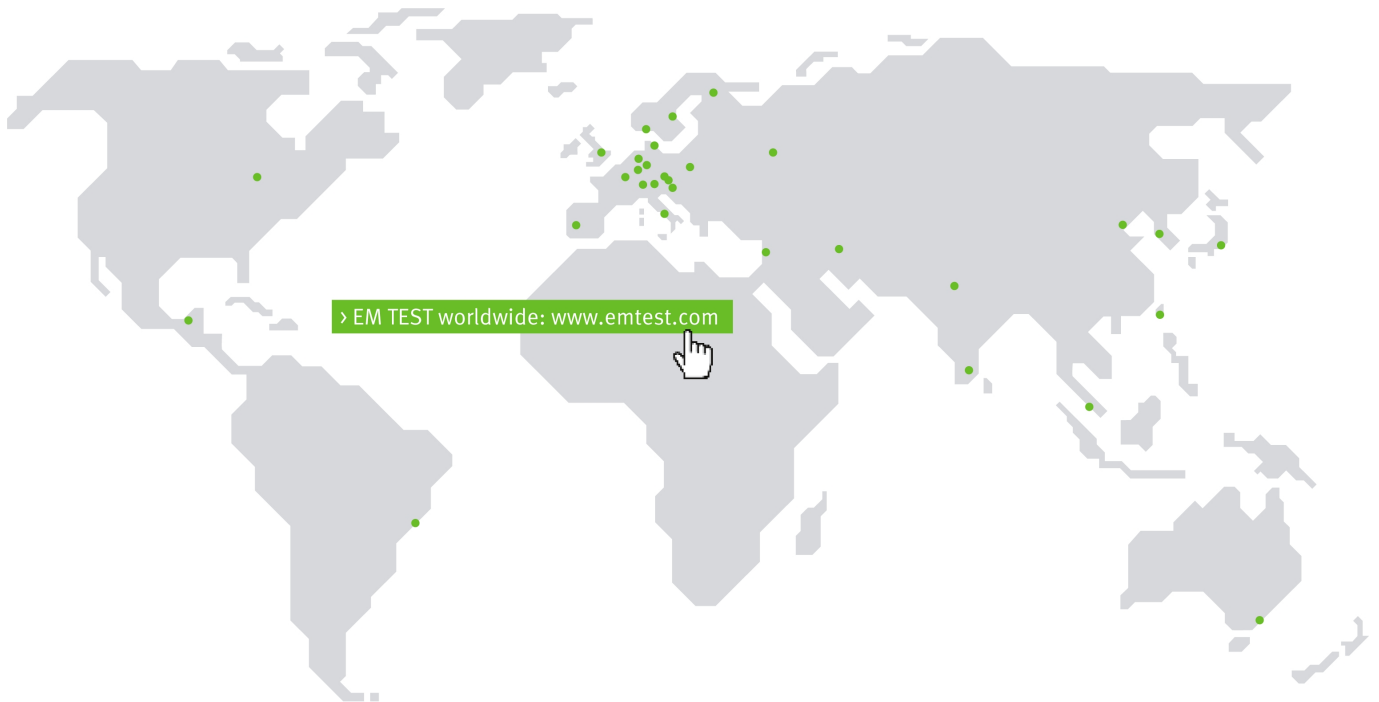
### INTERFACE

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
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# COMPETENCE WHEREVER YOU ARE



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