

Communication on a higher plane

Simulation Package for Test System Integration



Weiss Umwelttechnik GmbH Simulationsanlagen • Messtechnik



Controlled environmental conditions with S!MPATI*

We set standards

The system control software S!MPATI* enables optimum operation of your environmental simulation and oven systems for performing tests in the fields of research, development and production.

The operation of test systems becomes easy and time-saving. The integrated monitoring routines enhance the reliability of the systems.

You decide to what extent and how frequently monitoring routines are carried out. The evaluation and documenting of testing procedures and the integration of your special measuring data guarantee a high standard of quality.

S!MPATI* networks testing systems with a PC or a PC workstation. The archiving of all parameters of chamber configurations is thus ensured.

Thanks to user-friendly operation and self-explanatory menu guiding no menu training is necessary.

Online-help responds to any questions that you may have.

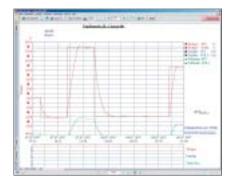
S!MPATI* integrates itself into your PC-network and enables the operation with your Internet Browser from other PC's without needing special software.

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What has S!MPATI* to offer?

- Control the test cycle
- Store measured data
- Easily create test programs with the graphics editor
- Network up to 99 units
- Connect additional measuring devices
- Record irregularities and possible malfunctions during the test cycle
- Print out measured data in the form of a graph
- Copy measured data for evaluation in other programs
- Calculate gradients of process parameters and times for altering the process parameters
- Manage your programs for production processes and tests in a coherent and clear manner
- Simulation data are provided by the S!MPATI*-webserver in the PC network
- The message service supports the transfer of messages by e-mail to an existing mailserver (SMTP)
- Remote control of the units in the network via JAVA-Applet with your Internet Browser
- Administration of different users
- Graphic symbols or photos can be chosen as chamber symbols
- Analysis with illustrative graphics and calculating options
- The possibility exists to block the chamber for external access

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Options

- Optional monitoring of units in Internet Explorer 6.0 by ASP.NET-application on internet information server (IIS 6.0) under Windows Server 2003
- Optional module allows signing of electronic, paper-free test documents by means of electronic signature
- Read in of programmes and production data (product, operator, system) through bar code
- Easy control panel EBO
- Acoustic error signal with part 11-activation (S!MPATI*- Pharma)

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Interfaces

For linking with your systems S!MPATI* processes data from the following external interfaces:

- RS 232 / RS 422 / RS 485
- Ethernet
- IEEE 488.2/GPIB (option)

Thanks to internal interfaces S!MPATI* is compatible with

- Microsoft-Word
- Microsoft-Excel
- National Instruments LabVIEW
- Via TCP/IP interface it is also compatible with your special user software
- Acrobat reader documents

S!MPATI* can operate under Windows 2003/2008 Server or Windows XP Professional/ Windows Vista.

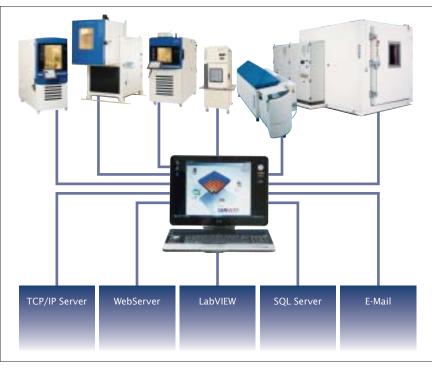
Mobile communication

S!MPATI* provides process information also via your hand held PDA (Personal Digital Assistance).

The PDA represents the S!MPATI* services via Browser or receives e-mails generated in S!MPATI*. The PDA can be used either in your facility-network via wireless LAN or universally via GPM, GPRS or UMTS.

The PDA permanently provides you with the latest information.







S!MPATI* has a webserver at its disposal which processes the relevant information and places it into the PC network. It can be retrieved by any PC through means of a suitable Internet Browser.

Special editors for different test cycles:

Graphic editor

Facilitates the creation of test programs.

In contrast to the previous task of programming, you can use the graphic editor to design your test cycles with the greatest of ease.

As soon as you have selected the menu item "Create test program" the graphic editor appears on the screen together with a small cross that you can move with your mouse.

- Move the mouse pointer to a point on the profile that you wish to alter.
- Double click at this point with the left mouse button.
 You have determined the first point of your test program.
- Move the created profile point to the required position by clicking the left mouse button and keeping it pressed whilst moving.
- Move the cross in any direction (e.g. to the time t = 20 min).
 You have now designed the first 20 minutes of your test program (programmed).

Your Advantages:

- Time-saving as no extensive training required.
- Error-free and quick creation of test cycles.

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Symbolic editor

You also have the possibility of using the "Symbolic Program Editor" for all systems with a S!MPAC*-, S!MCON/32*-NET- and M!NCON/32* control system.

For the creation of simulation programs, graphic POUs (program organization unit) such as fixed value, jump and ramp are rowed together and the course of curve is clearly displayed in a second window. This editor is particularly suitable if special set value curves, e.g. exponential functions (that can be very difficult to convert) are to be realized.

You have the choice – graphic or symbolic programming of time controlled processes.

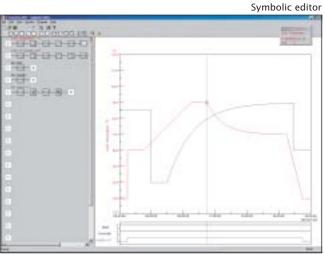
Shock test editor

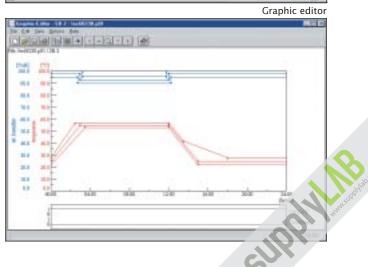
There is a special editor for the cyclic temperature shock tests which interrogates the essential testing parameters, such as the temperatures in the hot and cold chambers and the dwell time, in a simple input mask and converts them into the corresponding test programs.

The following operating modes are supported:

- Normal (time control only)
- Time optimised (minimum total running time with guaranteed dwell times)
- Energy conservation

Pre- and post conditioning samples can also be programmed.





BarCode scanning technology for data acquisition...

BarCode scanning technology can be used for data acquisition.

Wireless scanner technology scans and transfers the information during the loading of the chamber.

As alternative to keyboard and mouse this solution provides significant advantages such as:

- Simple to use even in cleanroom conditions
- "Fault-free" input of lot numbers and product ID's
- Scanning of process data
- Automatic assignment of process cycles to existing products
- Extensive training not required, no PC operation



Special features and advantages of the measurement-evaluation...

The measured data are stored and can be represented at all times. You receive all the information necessary for benefiting from the evaluated measured data.

- Set and actual values of all process parameters
- Settings of all digital channels during the entire test period
- Deviations from actual values compared to set values
- Gradients of the process parameters
- and much more . . .

Processing of the measured data e.g. with MS-Excel. You can represent the measured data over the entire test period or over a selected section of it.

It is also possible to display sections using the zoom function and display exact values of the process parameters using the readout function.

For further evaluation you can also load the measured data in Excel.

For documentation purposes you can copy the measured data in graph form to your Word documents or file it as PDF documents. The advantages:

- Perfect verification of extensive tests carried out on your products
- Easy evaluation due to clear graphic representation and calculation options
- Clearly arranged representation of all digital channels
- Processing with well-known software products such as Excel, Word and Acrobat Reader
- Compatible with your special user software due to TCP/IP interface
- Easiest integration into automation ambience
- Industry standard interface for process visualisation systems
- and many more ingenious features that we would be pleased to demonstrate.

Weiss Umwelttechnikwe set standards!



Evaluation

Functionality...

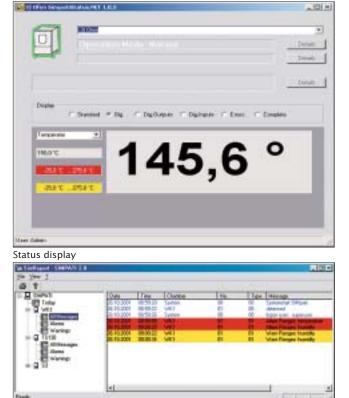
S!MPATI* manages all system and error messages on the hard disk of the PC. The error report is a clearly laid out function for browsing through the error databases with regard to individual units, default time periods or different error categories.

In addition to the normal messages on the screen and the entry in the report file, e-mails can be generated which are sent to different addresses. Recipient of such an e-mail may be the PC in the office, an operation and control centre or a mobile telephone.

S!MPATI* uses an existing mailserver and supports SMTP.



Concentrate Sugar Marach



Error report



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...and Scope of performance

For computer system CPU ¹) Main storage Hard disk capacity ree for S!(MPATI) Graphics CD-ROM drive Keyboard Mouse .Net Framework ≥2.0 Supported interfaces Supported interfaces - Novell Netware - TCP/IP Operating modes Mutomatic operation Channels to control (e.g. temperature, humidity) Channels to control (e.g. temperature, humidity) Channels to set (e.g. fan) Channels to coutrol (e.g. start) Channels to coutrol (e.g. start) Channels to coutrol (e.g. start) Channels to coutrol (e.g. operating hour counter) Event-oriented intervention in the cycle via the linking program Programming: a) Graphic editor b) Symbolic editor c) Shock test editor Documentation of the program (printer) Signing of documentation with electronic signature Program start - Selectable starting point - Lead time Automatic alarm signulation cycle	Pentium 4 d ≥4 GB ≥40 MB ≥800 x 600 Pixel, 256 yes Standard	patible PC patible PC pr compatible 21 GB 240 MB colours with appr. screen yes Standard Standard Standard Standard , IEEE 488.2 / GPIB / TCP/IP hal converter yes yes yes yes d software set values, itoring of system ion and production programs, itoring of system 64	
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Archiving frequency	able 5 sec. un	til several hours	
Evaluation of results	Line graph	in table form	
Error report		/Printer output	
Error signalling			
Support of add. measured values			
	Screen output local/via networ		
Printer	Screen output local/via networ via software interfac	e to different data logs erter cards	

¹⁾ The exact specification of the hardware and software requirements is included in your specific quotation.

Qualification documentation

For the S!MPATI' software we provide FDA-conform qualification documentation.





Manufacturer's Declaration FDA 21 CFR Part 11

All devices with S!MPAC*-, S!MCON/32*-NET- and M!NCON/32* controls fulfil the regulations of **FDA 21 C Part 11** on operation with S!MAN Software from version 2.02.

Test systems for professionals. Test the best...

Software S!MPATI* Pharma

Electronic recording of measured values by software S!MPATI* Pharma version 2.06 and higher meet the guideline **FDA 21 CFR Part 11** as to the extent described in the manufacturer's declaration FDA 21 CFR Part 11.

A qualification documentation according to GAMP4 is available for software packages S!MPATI* Pharma as of version 2.02.







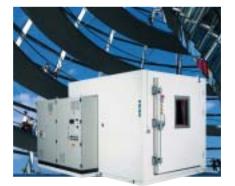


A complete product range for temperature and climate testing is available, with test space volumes of approx. 34 litres to 2160 litres and working ranges of -75...+180 °C and 10...98% r. h. In addition, we also offer an extensive selection of proven test systems for simulating exposure to weather, temperature shock, corrosion and long-term testing for research, development, quality assurance and production.

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