# SCITEQ

# SIGMA Software



# About SIGMA advantages

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#### Advantages

SCITEQ's browser-based user interface is accessible from any device – any time, anywhere.

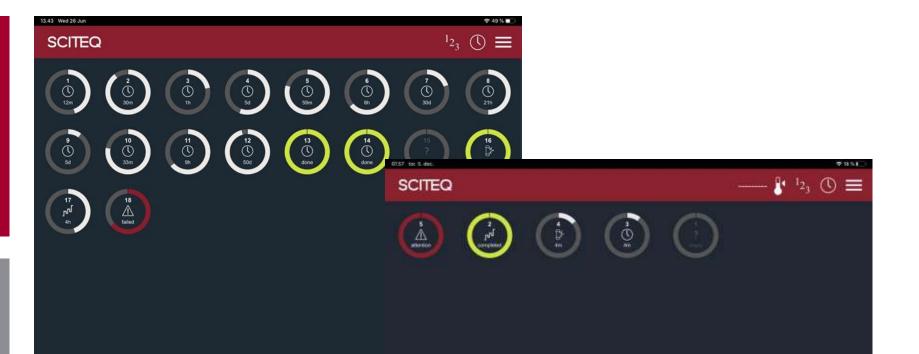
- ✓ 4 different user levels
- ✓ Easy recipe set-up
- ✓ Dynamically adjusted real-time finish time
- ✓ Multiple simultaneous users
- ✓ Multiple specimen test per station
- ✓ SQL database compatible with all server types

# About SIGMA interface

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# SIGMA 'One page overview'

The "One page" overview provides full view of all stations. Multiple filtering options. Displaying ongoing tests listed in order ranked according to 'attention urgency'/ time left to completion.



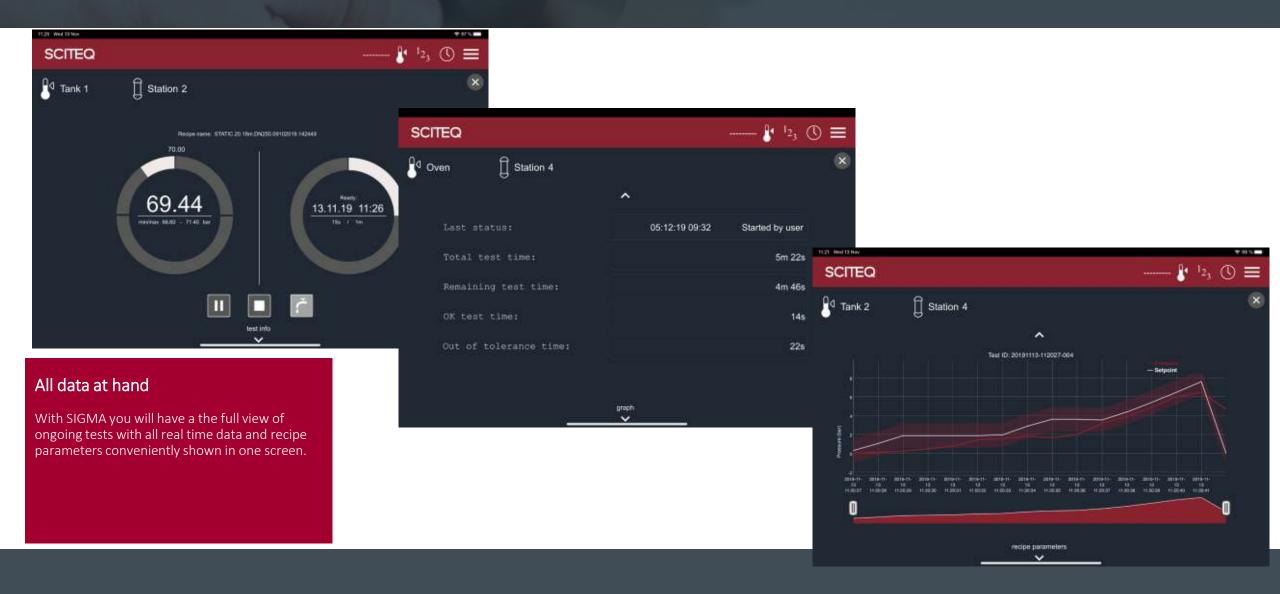
## Optimized for touch

The interface is optimized for touch, but can also be operated with mouse & keyboard.

SCITEQ recommends the use of an iPad pro 11" in shock and water proof cover. This is offered as option for SIGMA pressure installments.

# About SIGMA test overview

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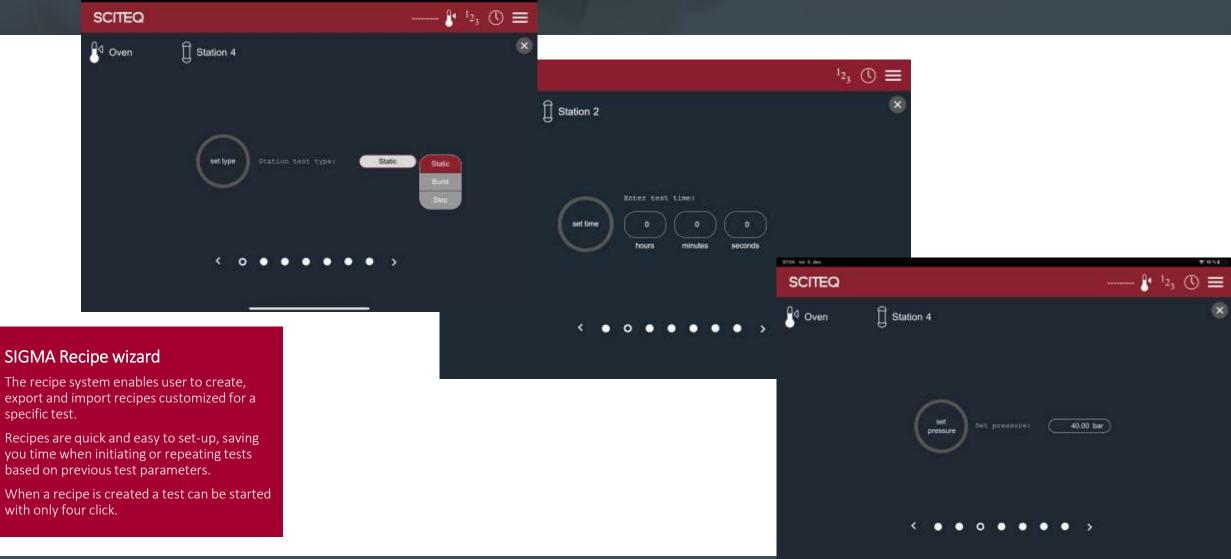


# About SIGMA recipe

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# About SIGMA recipe wizard

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# About SIGMA user levels

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## SIGMA User levels

The default settings of the four different user-levels from Basic to Advanced ensure convenient and quick start up as well as individual access levels. A view-only access is also included, allowing stakeholders to monitor the entire process remotely when needed. The four levels are:

- ✓ Monitor: Only monitoring
- ✓ User: start and stop of tests
- ✓ Super User: all functions
- ✓ Service: all functions

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# **About** SIGMA predictive maintenance

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#### SIGMA predictive maintenance

The SIGMA solution offers predictive maintenance system ensuring on-time maintenance and replacement of parts due to wear and tear. In case parts needs changing, this can easily be sourced via SCITEQ online spare part shop with individual customer login.

- ✓ Solve irregularities in time
- ✓ Maintenance & cleaning of parts in time
- ✓ Replace parts in time
- Calibrate in time (calibration is done by SCITEQ service engineers)

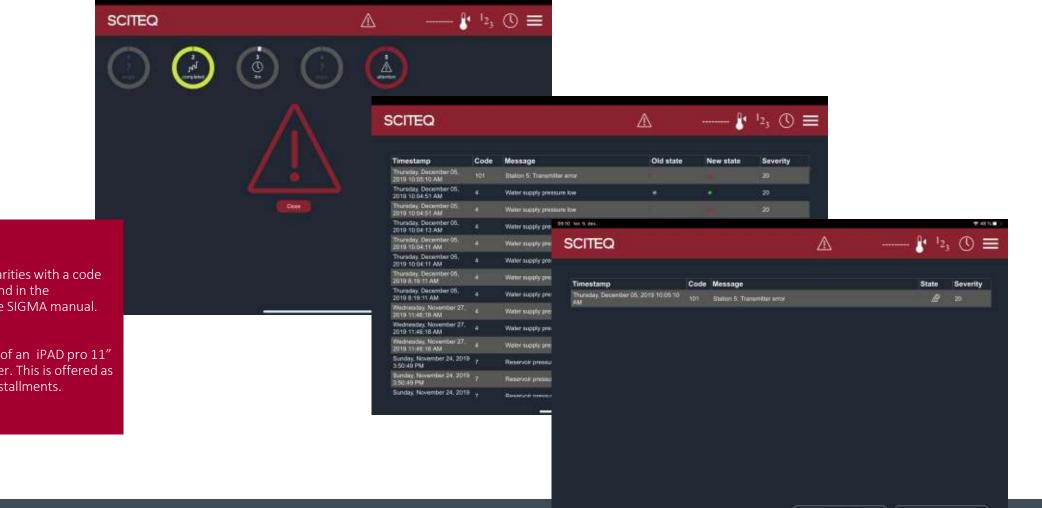


# About SIGMA self diagnostic system

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Acknowledge selected

Acknowledge all



## Self diagnostic system

The system will alert irregaularities with a code referreing to information found in the 'Troubleshooting guide' in the SIGMA manual.

#### Alarm

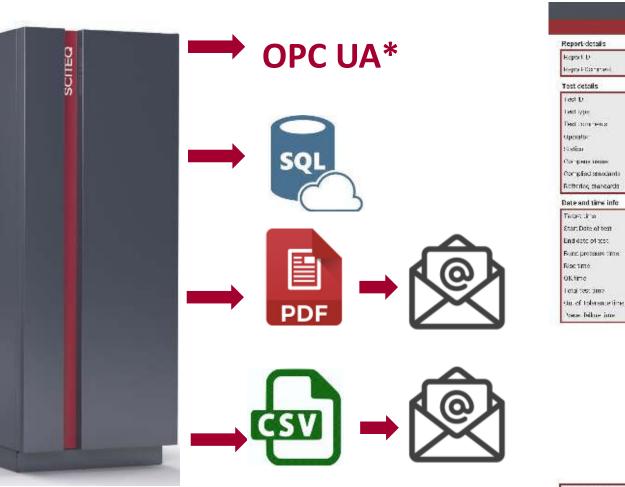
SCITEQ recommends the use of an iPAD pro 11" in shock and water proof cover. This is offered as option for SIGMA pressure installments.

# Software SIGMA data output

## Browser based data handling

Data can be extracted by OPC UA and when your test is completed you can export the test data to csv, PDF or directly to your database by SQL.

Completed tests are automatically uploaded to the browser based SIGMA test data page, you simply navigate to the page and export the file according to your preferences.



#### SIGMA auto generated pdf report

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# Software SIGMA data output

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## SCITEQ SIGMA TEST DATA

#### Reports

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## Test Data Page

All test data from each individual test is stored in the database. Access the data from the unique IP address from any browser.

Choose the specific test from the menu, filter the data you wish to export from the menu or include all data in the auto-generated pdf. report or CSV file.

# Software SIGMA data output

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# Test report & export of test data

Click boxes in the menu to choose the test data you wish to include in the report (your choice will be auto-saved for future reports). Export to pdf. report template or CSV file.

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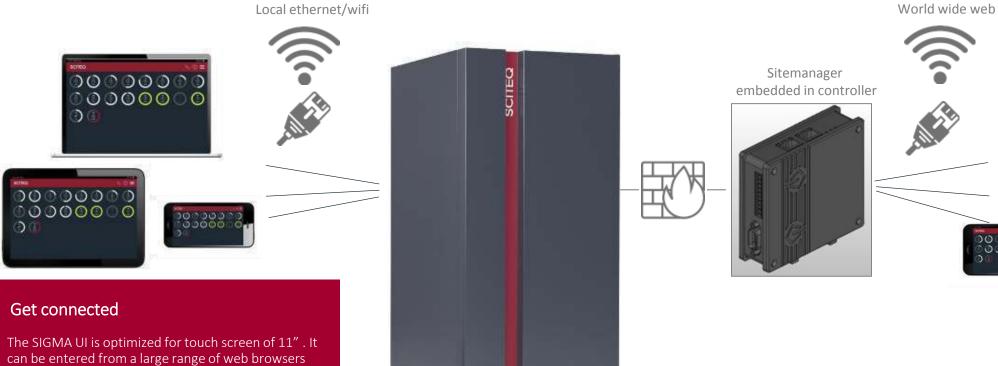
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#### Real-time graph

The graph shows the complete test sequence real-time. During running test it is possible to zoom in/out on the graph for a closer look on a specific time period/sequence.

# Network SIGMA network



such as Edge, Chrome, Safari, Firefox, Explore etc. We recommend using an APPLE IPAD PRO 11" to get the full user experience of the UI. The software does support other browser-based devices, however performance may variate. The UI software is preinstalled before on the SIGMA pressure equipment

# About SIGMA general settings

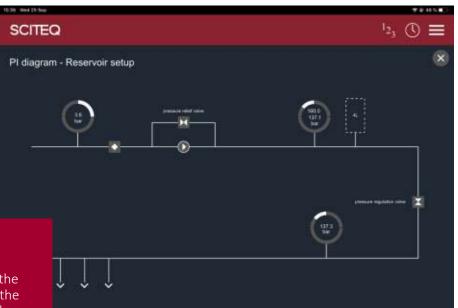
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# About SIGMA further features

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## PI diagramme

The PI diagram provides an overview of the reservoir setup and the components og the pressure test system. The diagram will also conveniently show any irregularities enabling easy troubleshooting

## Auto-fill bleed valve

The auto bleed feature will automatically ensure the sample is correctly filled at low pressure enabling quick preparation for accurate test.



# **Specifications** SIGMA Software

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	SIGMA Software/user interface
One page pressure station overview	$\checkmark$
Controller type	SCITEQ-B&R Controller
Intuitively and user friendly user interface	User interface is designed with focus on minimizing numbers of clicks and reducing complexity
User interface*	Chrome, Firefox, Edge, Safari, Internet Explore browser or similar.
User interface control	Optimized for touch screen, but useable with standard mouse and keyboard setup.
Multiple, password protected, user levels	$\checkmark$
Programmable test recipe's	$\checkmark$
Recipe library memory	At least 5000 unique recipe's
Recipe smart search function	$\checkmark$
Recipe download/upload	$\checkmark$
Secure remote accessible**	$\checkmark$
Dynamic test finish time estimate	$\checkmark$
Remote software update service incl. ***	$\checkmark$
Cloud/server backup	Database can be mirrored to multiple types of cloud/web storage services or external/internal servers
Test & recipe database system	SQL
Database storage memory	Approx. 100 GB of free memory for test/recipe data . 1 hour of testing takes approx. 5.4 KB of storage, meaning 1000 test of 10000 hours will take 1000x10000x5.4 = 54000000 KB => 54 GB and so on.

\*SCITEQ is recommending the use of IPAD PRO 11", or similar with screen resolution:2388x1668

# **Specifications** SIGMA Software



	SIGMA Software/user interface
Real time pressure/temp/time -curve	$\checkmark$
Test modes	Static pressure, Burst and Step test
Bleed/water filling function	$\checkmark$
Thermo tank specified station overview UX	SIGMA can be set up to only show the stations designated each thermo tank, meaning there will be a controller located with each thermo tank only showing the stations assigned for this tank.
Batch test mode*	$\checkmark$
Real time system P-I overview	$\checkmark$
SCITEQ machine error diagnose	$\checkmark$
SCITEQ preventive maintenance system	$\checkmark$
System alarm/error log	$\checkmark$
Post power failure auto resume	$\checkmark$
Max. quantity of simultaneous users	3
Internal password protected WIFI connection	$\sqrt{2,4  \text{GHZ}}$ and 5 GHZ
Temperature interface	Up to 10 internal or external conditioning systems can be controlled/logged from SIGMA
Required connection	Preferable web access, but system can run offline
Max. pressure station quantity**	100 as standard

# Specifications SIGMA Software



	SIGMA Software/user interface
Test data output	SCITEQ test report, CSV, XLXS, PDF, SQL output and similar
UX accessible by cabled connection	RJ 45 Ethernet and DVI
Controller power supply	24 V DC, but suplied by SCITEQ SIGMA Pressure Cabinet

# **SCITEQ** Service & Support

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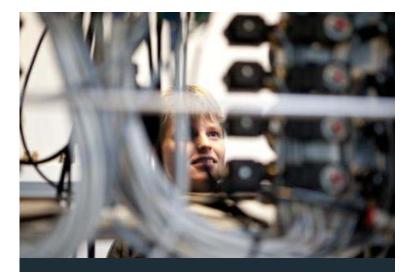
#### Installation & training

SCITEQ's trained service technicians perform onsite installation of your new SCITEQ equipment as well as onsite or remote training of your operating personnel who will be using the equipment.



#### SCITEQ Care

You will find the level of service suitable for your test setup with SCITEQ Care. SCITEQ service engineers will visit you annually to perform the best service and calibration. With SCITEQ Basic, More or All Care package you gain access to a long list of advantages, discounts and free support from SCITEQ skilled technician. Learn more about SCITEQ Care



## Support online & on-site

SCITEQ offers online and on-site support on all SCITEQ products, for fast and effective problem solving, training, setup, etc. If you have an unforeseen challenge or you need advise asap, you can contact service@sciteq.com or call us for urgent support.