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Avtron Load Banks SIGMA PC Software

What is SIGMA PC Software?

SIGMA PC software is a Windows™ based load bank control. It provides enhanced load control along with transient speed instrumentation, full data acquisition reporting with graphical displays, real time data such as crest factor recovery times and % errors necessary for testing to ISO8528. SIGMA PC software is the solution for witness testing, product verification, medium and high voltage testing.



AUTOMATED

No need for any pre-calculations.
Set your load and go.



INTELLIGENT

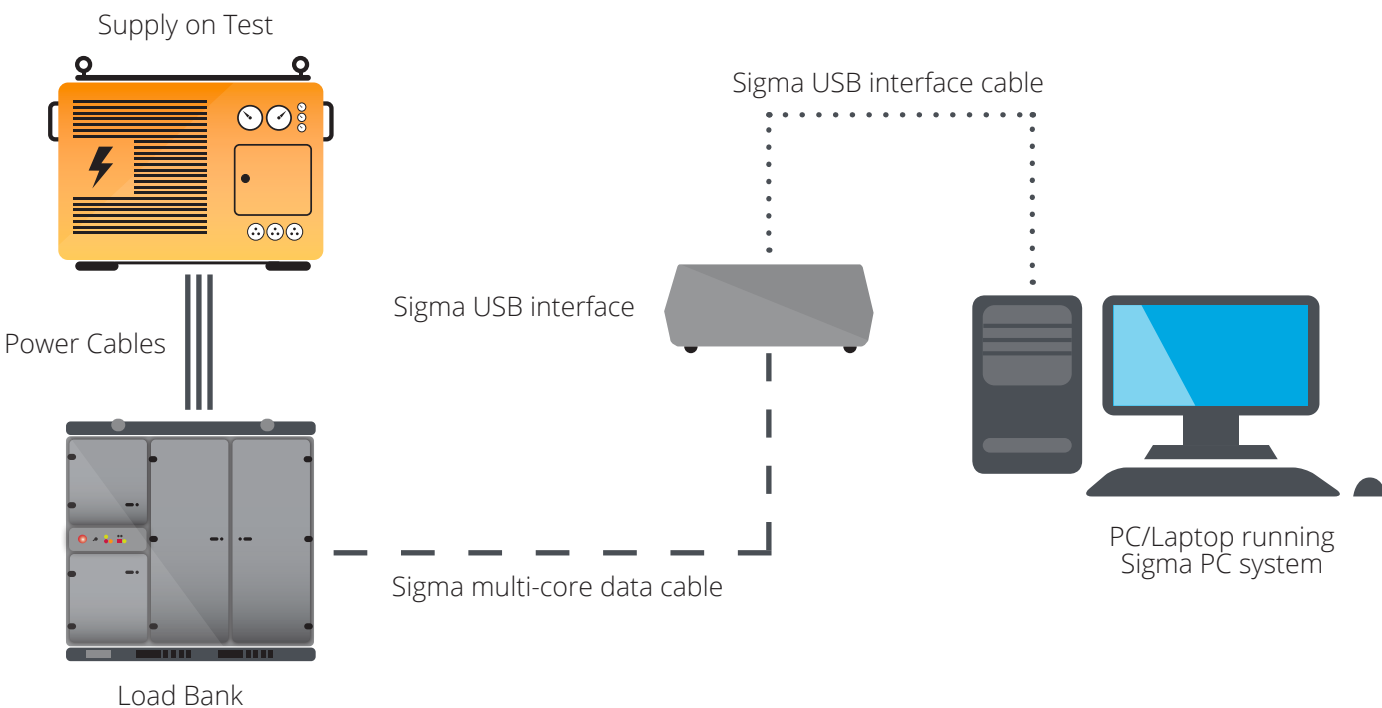
Ability to save and recall previous
load to test to the exact same
parameters every time.



VERSATILE

Control multiple load banks and
load profiles from one PC.

How to Connect SIGMA PC to Load Bank System



Perfectly suited for the following applications:



GEN-SET TEST CELLS







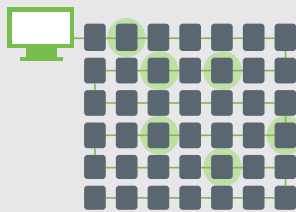
MISSION CRITICAL



RENTAL

Features and Benefits

SIGMA PC Software provides a range of features and benefits to ensure load testing is performed efficiently and accurately with either lightweight and portable or multi megawatt SIGMA load banks.

FEATURES	BENEFITS
 Data Capture & Reporting	<ul style="list-style-type: none">Save gen-set details for reporting and eliminate the chance of overloadingGenerator details are saved to use again later - go back and compare results over timeCreate a customized report from the load testUp to 50 readings per second for voltage and frequency dataAutomatically test against ISO 8528Result data can be exported for analysis using other software packagesCustomizable user-interface
 Flexibility	<ul style="list-style-type: none">High accuracy voltage and current transformers located within the load bankFull three-phase, high speed, true RMS measurements with high update rates to class 0.5 accuracyManual, Automatic, Transient and Heat Run load test optionsTest programs support load ramping (load applied gradually over the time entered)
 Feature-Rich	<ul style="list-style-type: none">Adaptive load correction ensures the correct load is applied even if the voltage or frequency droopAs a safety feature no more than 20% extra load can be appliedM Load to simulate motor starts of 50% load at 0.4 pfUse with the external SIGMA instrumentation system for MV and HV load testing
 Intelligent Control	<ul style="list-style-type: none">Add the generator specifications to work in percent load and prevent potential overloadingComprehensive overload and stall protection is provided, based on the rating of the supply-on-testReal-time graphical displays of up to 1 second per division, with automatic trigger on a load changeQuick Start Wizard for easy setup of any load testComprehensive help filesNo pre-calculations required - the software works it all out for youCalculation of rated line current and kilowattsControl resistive, inductive, capacitive, or combined load banksOperates in kW/kVA/kVAr or percent loadFully adjustable leading and lagging power factors
 Networkable	<ul style="list-style-type: none">Network with up to 14 SIGMA load banksLoad is automatically evenly distributed between the load banks in the networkNetwork combinations of resistive, inductive, and capacitive load banks for non-unity power factor testingUse a SIGMA gateway to use with SIGMA LT units



www.avtronpower.com

Avtron Power Solutions

6255 Halle Drive
Cleveland, OH 44125, USA
Tel: 216 573 7600

Cliffe Road, Easton-on-the-Hill
Stamford PE9 3NP, United Kingdom
Tel: +44 (0) 1780 480033

customercare@avtronpower.com