



# SignalCalc®

Advanced solutions for your test and measurement needs.

Discover more at [www.dataphysics.com](http://www.dataphysics.com)

## SignalCalc® Dynamic Signal Analyzers

Data Physics has been supplying high performance test and measurement solutions for over 20 years. With the addition of a full line of electrodynamic shakers to complement its vibration controllers and dynamic signal analyzers, Data Physics is a total solution supplier for noise and vibration applications.

## DYNAMIC SIGNAL ANALYZERS *ace / mobilyzer / savant*

### dp INTENSIVE & SCALABLE DSP POWER

SignalCalc analyzers are more than just acquisition devices. Every analyzer in the SignalCalc family is powered by DSPcentric hardware, each capable of realtime measurement and analysis at its maximum bandwidth. When making measurements at lower bandwidths the DSP is busy providing the digital filtering and decimation necessary for alias protection. The DSP in the ACE maintains

realtime measurements at 94 kHz on up to 4 channels without participation of the host PC. The embedded DSP allows the Abacus to make realtime measurements at 97 kHz from 4 channels to 1024 channels. SignalCalc analyzers guarantee gap free measurements under all circumstances, even when the host PC is used.

### dp COMPREHENSIVE APPLICATION COVERAGE

The large range of measurement and analysis software solutions cater to every application in dynamic signal analysis. The modularity allows you to configure a

system with only the software required for your application - optimum performance for minimum investment.

#### General FFT analysis

- Auto Power Spectrum
- Transfer Function (FRF)
- Synchronous Average
- Transient Capture
- Correlation
- Histogram
- Realtime Zoom
- Data Recording and Playback Analysis
- Data Export
- Report Generation

#### Machinery Diagnostics

- RPM Based Measurements
- Order Tracking
- Demodulation
- Waterfall/Spectrogram
- Rotordynamics
- Balancing

#### Structural Analysis

- Impact Testing
- Multiple Input Multiple Output (MIMO)
- SRS Analysis
- Stepped Sine

#### Environmental Test

- Environmental Data Reduction
- Alarm & Abort
- Notching Prediction
- Drop Shock Test

#### Acoustics

- Real Time Octave
- Sound Power
- Sound Quality
- Acoustic Intensity

#### Production and Process

- Event Capture
- Quality Control

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