

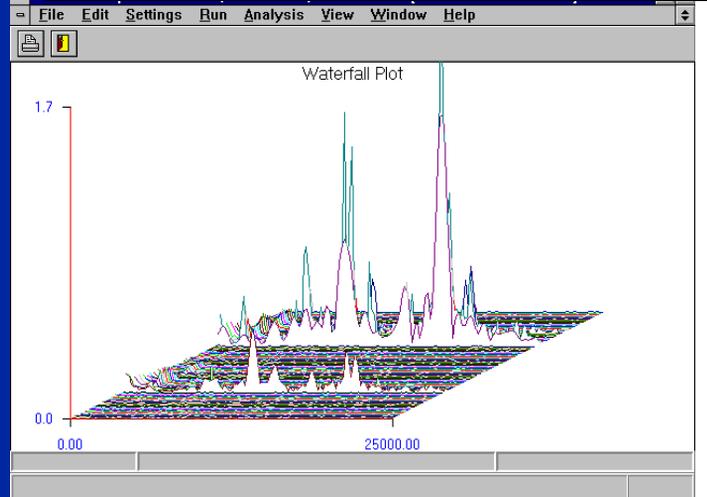
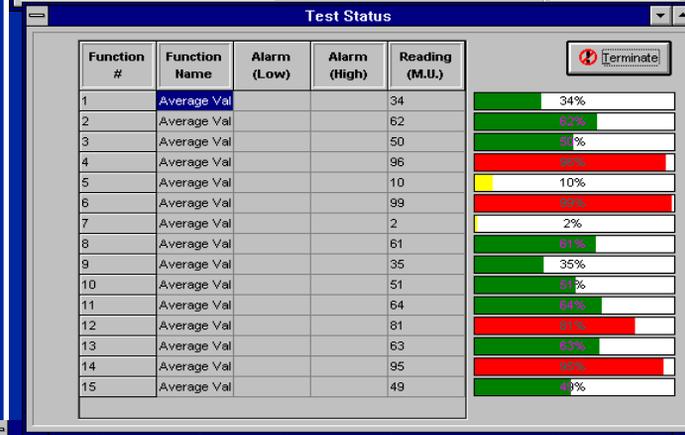
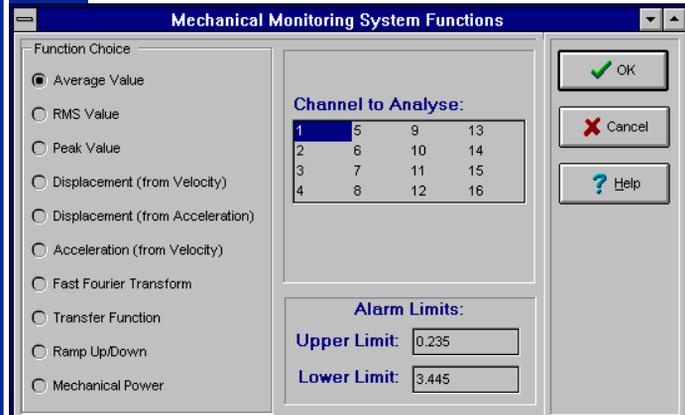
MMS Mechanical Monitoring System

MMS is a comprehensive, easy to use computer based data acquisition and graphics system which can be used for mechanical systems monitoring.

The system can be connected to complex machinery such as compressors and mills to determine machine parameters. This data can be used for preventative maintenance, assist in determining performance of bearings, gears and other rotating parts.

MMS is an essential tool for plant maintenance engineers, consultants and technical personnel. No special computer knowledge is required and the system can be used for both trending (continuous) and ramp (run-up / run-down) measurements.

MMS is available as a portable or rack mount unit for use in harsh industrial environments. MMS is locally developed and supported and can be customized to suit user applications.



Features Overview

Equipment

- ✓ Portable notebook system
- ✓ Optional industrial rack mount

Acquisition System

- ✓ Up to 16 single ended voltage inputs
- ✓ Input voltage ranges of $\pm 5V$ or $\pm 10V$
- ✓ Monitoring rate up to 250kHz per channel
- ✓ Data resolution 12 bits (1 in 4096)
- ✓ Data can be displayed as acceleration, velocity or displacement

Ramp Mode (Burst)

- ✓ Used for start up or shut down
- ✓ Continuous sampling up to size of hard disk (typically 10 minutes or longer)
- ✓ Data is stored to disk and analyzed using overlap processing
- ✓ Cascade plots
- ✓ Waterfall plots
- ✓ Orbital plots
- ✓ Polar plots
- ✓ Bode plots
- ✓ Timebase plots
- ✓ Spectrum or FFT plots
- ✓ User selectable time interval or overlap percentage
- ✓ User selectable spectrum resolution up to 4000 lines

Trending Mode (Continuous)

- ✓ User selectable sample rate up to 250kHz per channel
- ✓ User selectable data points
- ✓ Function selection list
 - ★rms and average value
 - ★peak value
 - ★waveform
 - ★spectrum
 - ★power spectrum
 - ★cross spectrum
 - ★transfer function
 - ★mechanical power
- ✓ Data is measured at user selectable intervals
- ✓ Data can be converted to ASCII, MS Excel or Matlab formats

Reporting and Plotting

- ✓ User selectable high and low alarm limits
- ✓ Envelope alarms for spectral processes
- ✓ User selectable channel list for data display or reports
- ✓ Automatic or manually scaled graph limits
- ✓ Speed channel selected from list
- ✓ Tracking and harmonic cursor
- ✓ Report and screen titling option
- ✓ Linear or logarithmic scaling for X or Y axes
- ✓ Screen grid, zero line and alarm limits or envelope can be superimposed on the data
- ✓ Data is stored in database format
- ✓ Data can be readily queried using standard database language (SQL)

Requirements

- ✓ 220v 50Hz power

Demonstrations

- ✓ A demonstration disk is available from TLC or an authorized dealer

Contact us now for your demonstration copy



Your Engineering Solutions Partner

Tel: +27-11-463-3860

Fax: +27-11-463-2591

e-mail: sales@tlc.co.za

Web: www.tlc.co.za