

Creep Measurement Software

Components long-term behavior and reliability is computed by subjecting the component material to constant strain at high temperature. A data acquisition system monitors material deformity and Temperature continuously. Online trending and alarms help the operator in Analysis. Software will enable onlinemonitoring of temperature and displacement with limit checking, Alarm capability andTrending. The Data is stored for Off-line analysis and Statistical reports. The softwarecomputes and graphically presents the following parameters.

- ⇒ Calculate the creep strain, % Reduction in area and Steady state creep rate (slope of the straight portion of the curve)
- ⇒ Interpolation and extrapolation, Equation for the best fit curve plotted from the test data
- ⇒ Larson-Miller Parameter (and other parameters like Manson-Haferd, Orr-Shrby-Dorn etc.) for each test
- ⇒ Plot steady state creep rate versus stress, iso-chronous creep curves, iso-thermal creep curves etc. with the help of specimen data tracking and archiving facilities
- ⇒ User-friendly software: provision for statistical and analytical calculations and X-Y / X-t / Y-t plotting with raw data / derived parameters
- ⇒ Easy data exporting facility to any spread sheet format

