PRESCOTT
INSTRUMENTS LTD

Minitester Rheometer

The Minitester Rheometer from Prescott Instruments introduces a new standard in bench top rubber testing instruments.

This compact and lightweight design features a unique and patented drive system which does not have traditional bearings and so maintenance is kept to an absolute minimum.

A fully functional PC running Windows XP has been integrated into the design of the Minitester. This removes the use for an external PC, monitor, mouse and keyboard saving valuable space in the laboratory and also removes the need for messy cables. The operator has full control of the Minitester via the built in touch screen but a traditional mouse and keyboard can be fitted via the available PS2 or USB ports.

A network port comes as standard making it easy to share your data within the company LAN.

The non sealed die system means there are no expensive seals to replace and keeps the sample preparation to a bare minimum.

The calibration is done my hanging a calibration weight and then the software does all the rest.

Tests can be run with or without film for the best results we recommend that film is used to keep the die surfaces free from contamination.

The temperature control is the best in its class and by way of an internal 3 term PID control algorithm it gives accuracy better than 0.03 degs. C.

The Rheometer can be commissioned in just a few minutes without the need for complicated setup procedures.

Because of its portable nature it can be shipped back to base for repairs and updates and repaired speedily making it a very cost effective solution.

The Labline software is fully functional with a database utility giving you an unlimited number of test methods to be stored. Within each method you can select any number of data points on the curves, in addition limits can be placed on these points to pass or fail tests.

The database can be accessed through the Rheometer touch screen, or the system can be networked giving the user the option to edit methods remotely as well as view pervious data even while the Rheometer is being used.

Data points and limits can be placed on any combination of the Elastic, Viscous, Tan. Delta or Cure Rate curves.

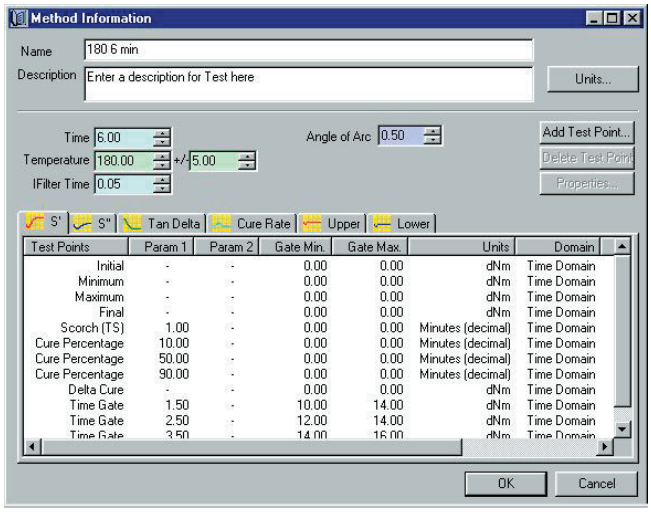
Limits can also be implemented on the temperatures, to prevent a test being started if the temperatures are out of range.

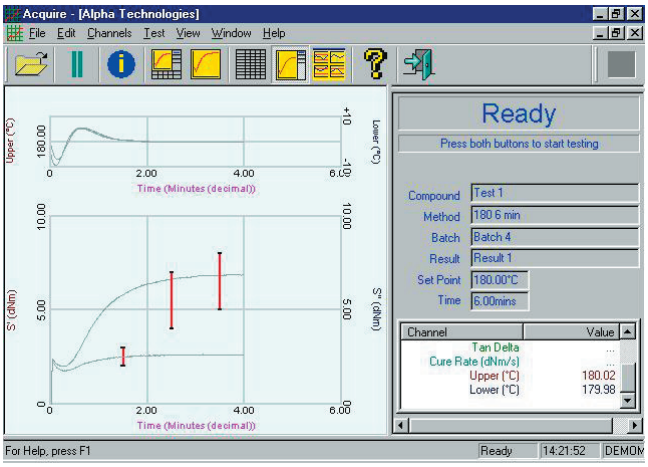
Before each test is run the operator inputs the test method (which automatically sets up the time, temperature and data point selection), the batch number, and any other relevant information they may wish to add.

Any number of curves can be run one after the other, with the operator being shown whether each test is a pass or fail before they accept it. Additionally old curve data can be called from the internal hard disc to compare today's results with that of previous batches.

In the event of a data point being requested some time after the test was carried out, then it can be easily recalculated and inserted into the results database.

For sequential batch testing, there is the option of auto incrementing the batch number, the value of the increment can be defined as any number from 1 to 100.





TECHNICAL SPECIFICATIONS

Weight	54 KG
Dimensions	850 x 300 x 300 (mm)
Designed to	ASTM D5289
Oscillation	0.5, 1.0, 3.0 (Manually selectable)
Electrical	240/110V 50,60 Hz single phase Max 10A
Air pressure	60 psi, 4.2 kg/cm2
Dies	Rotor less non sealed 4 cm3
Single point calibration Integral LAN port	
USB port	
Temperature control	3 term PID, accuracy +/- 0.03 degs C
Temperature range	50 to 200 degs. C
Torque range	0 to 200 in lb
Graphical displays of:	Elastic Torque Viscous Torque Tangent Delta Cure Rate.
Full selection of programmable data points with statistically determined limits	
Automatic pass/fail at end of test, visible warning to alert operator	
Password security	3 levels of login
All data stored in ACCESS database format, exports available in CSV format	

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