



Prescott
instruments

Rheoline MDR Smart Auto-Test

A Trusted Name in Material Testing

- Prescott Instruments is a U.K. company with **over 30 years' experience in material testing.**
- We manufacture all instruments **onsite in the U.K. under ISO 9001** and our in-house laboratory team perform all **instrument calibrations under ISO 17025.**
- Our **Moving Die Rheometer Smart Auto-Test** streamlines the testing process for rubber laboratory professionals.
- Its **precision, reliability and durability** make it an indispensable instrument for rubber laboratories of any size.

Built to Last

- **Durability:** The high-stiffness steel frame is robust enough to withstand the demands of a busy production environment with the high precision performance to match.
- **Reliability:** Expertly-crafted construction provides stability and reliability even when testing the hardest of materials.
- **Unique:** Our bespoke high-end electronics ensure the highest data sampling rates available.

Repeatability and Connectivity

- The **cost-effective choice** for any testing laboratory, this compact instrument **increases laboratory productivity** through its **semi-automatic sample-loading mode (4 samples at a time).**
- Maintain **accuracy and reproducibility** by using film for loading, **preventing slippage** often found in other automated systems.
- **Simplicity of design** means you can replace components **easily and affordably.**
- **Perform tests on demand** with our built-in **Labline** analytical software.
- Data is calculated in real-time, displaying **live data traces on screen.**
- After the test is complete, the sample is removed from the test chamber and conveyed along on the film, with the **results automatically graded as pass or fail.**



Rheoline MDR Smart Auto-Test

Technical Specification

Standards	ISO No. 6502 / ASTM D5289
Sample Capacity	4
Die Configuration	Sealed 4.5cm ³
Oscillation Frequency	1.67 Hz
Oscillation Amplitude	0.5, 1.0, 3.0 degrees. (0.5 Standard, 1, 3, optional)
Temperature Range	Ambient to 250 °C
Temperature Control	3 term PID, control accuracy +/- 0.03 °C
Units of Measurement	Torque Inlb, dNm. Temp. Celsius, Fahrenheit. Pressure Lb/sqin., Kg/sqcm. (Optional) Time Min/Sec, Min/Decimal, Seconds.
Output Type	Real time display of: - Elastic torque - Viscous torque - Tangent delta - Cure Rate - Pressure in Cavity (optional)
Data Format	All data stored in Access database with full export functionality
PC Specification	Pentium Processor, networkable
Electrical	Single Phase 220/240V 50 Hz or 110V 60 Hz
Pneumatics	Filtered Air; 4.2 Kg/cm, (60 Psi)
Optional Extras	Programmable Temperature Zones Additional Oscillation Eccentric Pressure Transducer Rheoline Volumetric Sample Cutter

NOTICE: Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof. Prescott Instruments Ltd. Make no representation or warranties as to the completeness or accuracy thereof. Information is supplied upon the conditions that the persons receiving same will make their own determination as to the suitability for their purposes prior to use. In no event will Prescott Instruments Ltd. Be responsible for damages of any nature whatsoever resulting from the use or reliance upon information for the product, equipment or system to which information refers. Nothing contained herein is to be construed as recommendation to use any product, equipment, system, process or formulation in conflict with any patent, and Prescott Instruments Ltd. makes no representation or warranty, express or implied, that the use thereof will not infringe any patent, except for the limited warranty set forth in Prescott Instruments Ltd. standard sales contracts for its equipment and services.

PRESCOTT INSTRUMENTS LTD. MAKES NO REPRESENTATIONS OR WARRANTIES WHETHER STATUTORY, EXPRESS OR IMPLIED, OF MERCHANT ABILITY FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE WITH RESPECT TO THE INFORMATION OR PRODUCT, EQUIPMENT OR SYSTEM TO WHICH INFORMATION REFERS.

© 2016 Prescott Instruments Ltd.

Prescott Instruments Ltd. Unit F, Northway Trading Est, Northway Lane, Tewkesbury, Gloucestershire, GL20 8JH UK

Tel: +44 (0) 1684 274300 ; sales@prescott-instruments.com ; www.prescott-instruments.com



Certificate No. 3088

Cert #4023.01