



Prescott
instruments

Rheoline Oscillating Disc Rheometer



We understand that laboratories are reluctant to convert to the tried and proven specifications of a Moving Die Rheometer scenario, but need to gain the latest measurement technology.

Prescott Instruments have fashioned a perfect synergy of traditional principles and the latest modern technologies to build our **Oscillating Disc Rheometer (ODR)**. Our design aims to revolutionise a classic, and provide a seamless transition when upgrading your laboratory equipment.

The Rheoline ODR is equipped with high precision micro production die and rotor assembly. Using a microprocessor based PID control system, the temperatures of the dies are accurately maintained throughout the testing process. The test material sample is placed on the rotor and is secured in place by pressure controlled platens.

The instrument is easy to maintain, and designed for ease of access. The oscillation amplitude can be mechanically adjusted with the options of 1°, 3° and 5°.

The test results are performed and displayed as plotted curves on a graph. The information can be printed out as and when required or stored on the computer's hard disc for future reference. In addition the ODR can be interfaced with Quality Analyst, an internationally recognised SPC package to generate control charts, and carry out full statistical analysis of test data, or any external quality control package.

Real-Time Display of:

- » Standard torque curve
- » Viscous curve
- » Tan. Delta
- » Cure rate
- » Programmable data points & limits
- » Automatic Pass/Fail limits

Standards:

ISO 3417 / ASTM D2084

Temperature Range:

Ambient to 250 °C
± 0.03 °C

Oscillation Angle:

1.0°, 3.0° and 5.0°

Oscillation Frequency:

1.67 Hz

Rheoline Oscillating Disc Rheometer

Technical Specification:

Standards	ISO 3417 / ASTM D2084
Die Configuration	Micro Production Die & Rotor, as specification (adjustable)
Oscillation Frequency	1.67 Hz
Oscillation Amplitude	1.0°, 3.0°, 5.0° (One supplied as standard)
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. Time Min/Sec, Min/Decimal.
Output Type	Real time display of: - Elastic Torque - Viscous Torque - Tangent Delta - Cure Rate
Electrical	Single Phase 220/240V 50Hz 110V 60Hz 350 VA
Pneumatics	Filtered Air, Min: 0.41 Mpa 60 psi 4.14 Bar 4.2 kg/cm
Weight	200 kg
Dimensions	575 mm x 570 mm x 1280 mm (W x D x H)
PC Specification	Pentium processor, networkable
Optional Extras	Programmable Temperature Zones Additional Oscillation Eccentric Rheoline Volumetric Sample Cutter

» **Get your free quote today** - visit us at www.prescott-instruments.com



Prescott
instruments

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

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 MERCHANTABILITY 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.

