

RESILIENT MODULUS

LOADTRAC II / CYCLIC - RM

Geocomp's LoadTrac II Resilient Modulus unit fully automates resilient modulus tests on base/subbase/subgrade materials. Resilient modulus testing is a complicated test in which the stiffness of the sample changes with loading. Since the performance of cyclic loading systems depends on the stiffness of the sample, most systems fail to apply the correct load throughout the test. Geocomp's RM system uses a very sophisticated adaptive control that makes real-time adjustment of a PID controller to adjust the system control parameters as the stiffness of the specimen changes. This feature permits our system to apply an accurate load from the beginning to the end of the test.

- High-performance, electromechanical actuator
- Self-calibration procedure built in
- Built in safety features
- Smart and sophisticated technologies to simplify testing
- Repeatable, reliable, and accurate results you can trust
- Real-time and remote test parameter changes for quality control
- Convenient reporting and data export
- Faster, smarter, better: designed with full automation and manual control options
- Easy upgrade to perform additional test types
- Designed and manufactured in the USA

Applicable Test Standards

- AASHTO T294, T307
- SHRP Protocol P46
- NCHRP RPT 285
- AS 1289.6.8.1, AGPT-T053-07



Standard Resilient Modulus System

RESILIENT MODULUS LOADTRAC II / CYCLIC - RM



TECHNICAL SPECIFICATIONS

LOAD CAPACITY

4.5 (1 klbf) or 9 kN (2 klbf) at 200 mm (8 in) per second

CONTROL

- Stress (load)
- Strain (displacement)

CYCLIC RATE

Up to 10 Hz

TYPE OF CYCLIC LOADING

Standard haversine and any user-defined waveform

PRESSURE

0-500 kPa (0-70 psi)

POWER

208-240 V, 50/60 Hz, 1 phase

DIMENSIONS

LoadTrac II 464 x 546 x 1206 mm (18 x 21.5 x 47.5 in)

 1206 mm
 203 x 406 x 470 mm

 47.5 in)
 (8 x 16 x 18.5 in)

WEIGHT

LoadTrac II Cyclic-RM 55 kg (120 lbs) 14 kg (30 lbs)

INCLUDED

GeoNet-U USB 2.0 network adapter and cable to link to PC/laptop

Cyclic-RM

CYCLIC7N software module to automatically run and report tests

ACCESSORIES

- FlowTrac II models available
 - 200 psi (1400 kPa) or 500 psi (3500 kPa/ 250 cc
 - 200 psi (1400 kPa)/ 750 cc

File View Run Calibrate Control Report Options Help

- Triaxial cells up to 152 mm (6 in) diameter
- · Membranes, porous stones, and sample preparation accessories upon request
- TRIAXIAL.REPORT: editing/reporting software for multiple tests

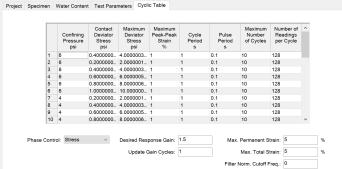
WARRANTY

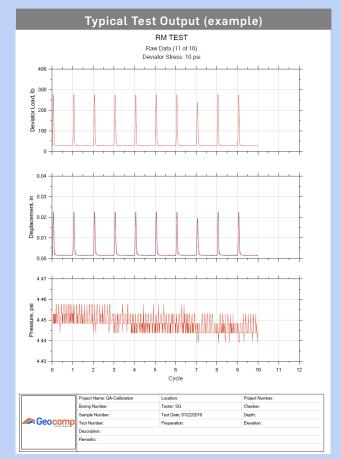
12 month warranty; extended warranties available

User Friendly Interface

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