

## FULLY AUTOMATED PERMEABILITY

### LOADTRAC II / FLOWTRAC II OR III

The LoadTrac II / FlowTrac II or III system provides a unique and versatile way to run permeability tests on a wide variety of materials quickly and accurately. This system automates the initialization, saturation, consolidation (isotropic, anisotropic, and Ko) and flow phase by adjusting the gradient or the flow rate across the sample. The system can measure permeabilities varying from  $10^{-4}$  cm/sec to  $10^{-9}$  cm/sec. With the appropriate test cells, this one system can determine the permeability of silts and clays within minutes.

- 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

- ASTM D2434, D5084
- BS 1377-6
- ISO/TS 17892-11



Standard Permeability System

# FULLY AUTOMATED PERMEABILITY LOADTRAC II / FLOWTRAC II OR III

## TECHNICAL SPECIFICATIONS

### LOAD CAPACITY

45 kN (10 kLbf) or 90 kN (20 kLbf)

### MOTOR

Micro-stepper system with built-in controls

### RATE OF DISPLACEMENT

0.00003 to 25 mm per minute  
(0.000001 to 1.0 in per minute)

### PRESSURE/VOLUME CAPACITY

- 150 psi (1035 kPa) / 200 cc
- 200 psi (1400 kPa) or 500 psi (3500 kPa) / 250 cc
- 200 psi (1400 kPa) / 750 cc

### FLOW RATE

Min Speed 0.00003 cc/min 0.000001 fl oz/min  
Max Speed 1054 cc/min 36 fl oz/min

### TRAVEL

Built-in displacement transducer with 76 mm (3 in) range and 0.0013 mm (0.00005 in) resolution

### DIMENSIONS

LoadTrac II	FlowTrac II	FlowTrac III
464 x 546 x 1206 mm (18 x 21.5 x 47.5 in)	203 x 406 x 470 mm (8 x 16 x 18.5 in)	203 x 457 x 260 mm (8 x 18 x 10.25 in)

### WEIGHT

LoadTrac II	FlowTrac II	FlowTrac III
55 kg (120 lbs)	14 kg (30 lbs)	11 kg (25 lbs)

### INCLUDED

- GeoNet-U USB 2.0 network adapter and cable to link to PC/laptop
- PERM software module to automatically run and report tests

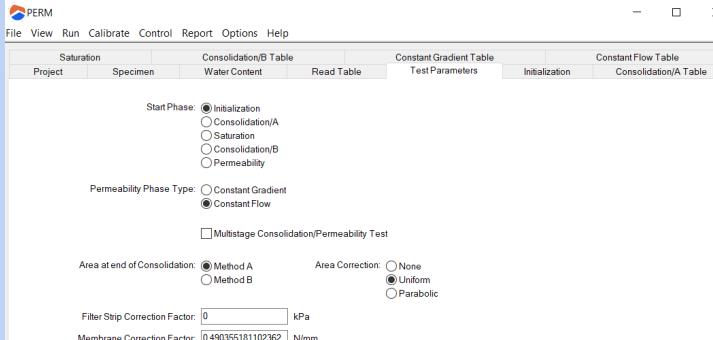
### ACCESSORIES

- 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

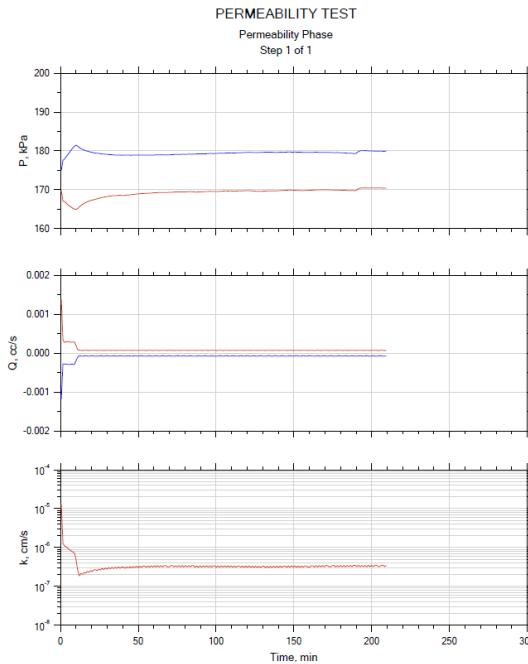
### WARRANTY

12 month warranty; extended warranties available

## User Friendly Interface

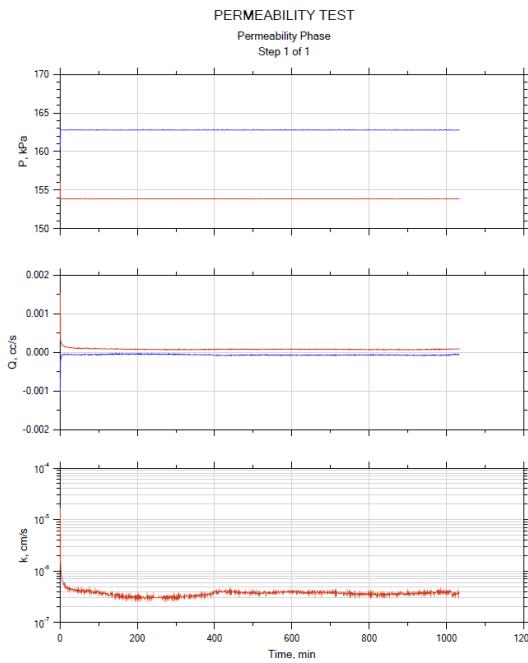


## Typical Test Output (example)



	Project: PERM Boring No.: 4A Sample No.: 4A-1 Test No.: 3 Description: Constant flow rate permeability test Remarks:	Location: USA Tested By: se Test Date: 02/22/2018 Sample Type: Undisturbed Depth: 2 ft. Elevation: --	Project No.: Flow -1 Checked By: bn Remarks:
---	---	--	--

## Typical Test Output (example)



	Project: PERM Boring No.: 4A Sample No.: 4A-2 Test No.: 4 Description: Constant gradient permeability test Remarks:	Location: USA Tested By: se Test Date: 02/28/2018 Sample Type: Undisturbed Depth: 3 ft. Elevation: --	Project No.: Gradient -1 Checked By: bn Remarks:
--	--	--	--