



IF IT'S WORTH BUILDING, IT'S WORTH TESTING

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DSU Electronic Readout and Control System 110 V AC 60 Hz

27-1500/02

GDU 8 Channel Data Acquisition Unit 100-120 V 60 Hz

27-1760

DS7.1 CU/CD Effective Stress Triaxial Software

27-1617

Axial Strain Transducer Assembly 50mm Travel Fitted with 5 Pin Din Plug.

27-1641

Volume Change Transducer Assembly 80Cm3 Capacity Maximum Working Pressure 1700Kpa

27-1633

Pressure Transducer Assembly 1700Kpa Fitted with 5 Pin Din Plug.

25-4117

70mm Triaxial Cell 1700Kpa with 5 Pressure/ Drainage Ports. Supplied with Two Valves.

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Tri-Flex 2 Master Control Panel, English 110vAC

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Combination Permeameter

27-1768

DS7.2 Permeability in a Triaxial Cell Program for Windows 7, 32/64 bit



DSU Electronic Readout and Control System 110 V AC 60 Hz

Code: [27-1300/02](#)

Product Group: [Data Logging with the DSU](#),
[Electronic Instrumentation](#), [Data Logging with the DSU](#)

- Download the full brochure here
[/Page/catalogue-download/NTRmZS9UaGUgTkVXIERTVSBVU0EucGRm]
- Download the full DS7.2 geotechnical software brochure here
[/Page/catalogue-download/NTRmZS9OZXcgRfM3IFNvZnR3YXJlIFVTQTY5LnBkZg==]
- 4 channel automatic control and data-logging unit
- Automatic, dual-frame control
- Performs CBR, Marshall, Unconfined Compression, Direct and Residual Shear, One-Dimensional Consolidation, Unconfined Undrained, Consolidated Drained and Unconsolidated Drained tests
- LAN connection - software can be running anywhere on your server
- Never lose data from power fails - 2 gigabytes of non-volatile memory

The Data System Unit (DSU) is a versatile instrument designed to accommodate the general logging requirements of geotechnical and materials testing engineers. Its intelligent interface allows the user to work with a range of different sensors.

Further Information

Become a member of the ELE International web site, add this new product to a wishlist to receive a quote! Click here [\[Login\]](#)

This product is now available in the USA and Canada!



GDU 8 Channel Data Acquisition Unit 100-120 V 60 Hz

Code: 27-1500/02

Product Group: [Data Logging with the GDU, Geotechnical Data Acquisition Unit \(GDU\)](#)

The GDU is a stand-alone, multi-tasking, multi-channel data logger, that is reliable and powerful, enabling it to co-ordinate test data from the range of ELE transducers required for various test methods.

The ELE Geotechnical Software package (DS7.1), in conjunction with the GDU and a range of transducers, are the two central components required to create a modern turnkey soil testing system. Being fully modular it can be adapted to a wide range of soil testing laboratory configurations.

- For performing CBR, Consolidation, Direct/Residual Shear and Total & Effective Stress Triaxial tests
- 8 Channels expandable to 32 for performing multiple, concurrent tests for cost savings
- Independent signal conditioning on each channel to maintain data accuracy
- Field-upgradeable software, meaning no downtime for future software and functionality upgrades
- Extended warranty

Specification

Case	Aluminum, free standing; houses power supply, analog to digital conversion module and an 8-channel analog input module with transducer energization.
Sockets	Standard 5-pin DIN type.
Input Range	± 5 volts to ± 10 mV full scale.
Transducer Supply	10vDC.
Dimensions	12.8" w. x 14.3" d. x 6.1" h. (325 x 363 x 155 mm).
Weight	Net 14.08 lbs. (6.4 kg).



DS7.1 CU/CD Effective Stress Triaxial Software

Code: [27-1760](#)

Product Group: [N/A](#)

Standards

ASTM D4767, ASTM D7181, AASHTO T297



Axial Strain Transducer Assembly 50mm Travel Fitted with 5 Pin Din Plug.

Code: [27-1617](#)

Product Group: [Axial Displacement](#), [Axial Displacement](#), [Displacement Transducers](#)

0 to 50 mm range. For use with Triaxial Cells.

- Ideally suited for use with GDU for accurate displacement measurements
- Models available for use in consolidation, shear, CBR and triaxial test applications
- Supplied complete with mounting hardware for specified products

Displacement Transducers are used in consolidation, shear, CBR and triaxial test applications for accurate displacement measurements. They are supplied complete with a 5-pin DIN type connector for direct connection to the GDU.

Specification

Construction	Fully encapsulated electronics, sealed in a stainless steel case
Excitation	10 V DC
Connector	5-pin DIN type
Mounting bracket	Included as standard
Weight kg	0.45
Construction	Fully encapsulated electronics, sealed in a stainless steel case.
Excitation	10vDC.
Connector	5-Pin DIN type.
Mounting Bracket	Included as standard.
Weight	Net 1 lb. (0.45 kg).



Volume Change Transducer Assembly 80Cm3 Capacity Maximum Working Pressure 1700Kpa

Code: 27-1641

Product Group: [Volume Change Measurement](#),
[Volume Change Measurement](#), [Volume Change Transducer](#), [Tri-Flex 2 One-Cell Permeability Test System](#)

- Reversing valves to increase capacity
- Steel case for wall mounting and access to piping
- Supplied complete with calibration certificate

The Volume Change Transducer provides continuous measurements of volume change during the triaxial test. The assembly includes a valve to reverse the flow through the unit, providing increased capacity.

Specification

Overall dimensions (l x w x h)	178 x 229 x 368 mm
Maximum pressure	1700 kPa
Excitation	10 V DC
Output	1.25 full range
Capacity	80 ml
Connector	5-pin DIN type
Weight kg	4.5
Maximum Pressure	250 psi (1,700 kPa).
Excitation	10vDC.
Output	1.25 Volts full range.
Capacity	80 cc x 0.1 cc sensitivity.
Case	Steel; hinged for access to piping.
Connector	5-Pin DIN type.
Overall Dimensions	9" w. x 7" d. x 14 -1/2" h. (229 x 178 x 368 mm).
Weight	Net 10 lbs. (4.5 kg).
Maximum Pressure	250 psi (1,700 kPa).
Excitation	10vDC.
Output	1.25 Volts full range.
Capacity	80 cc x 0.1 cc sensitivity.
Case	Steel; hinged for access to piping.
Connector	5-Pin DIN type.
Overall Dimensions	9" w. x 7" d. x 14 -1/2" h. (229

Product Sheet

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Weight

x 178 x 368 mm).
Net 10 lbs. (4.5 kg).



Pressure Transducer Assembly 1700Kpa Fitted with 5 Pin Din Plug.

Code: 27-1633

Product Group: [Pressure Transducer](#), [Pressure Measurement](#), [Tri-Flex 2 One-Cell Permeability Test System](#)

Pressure Transducers are used to measure the cell, pore and back pressures during triaxial testing. Assemblies are supplied complete with a de-airing block, valve, 5-pin DIN plug connector and calibration certificate

Specification

Construction	Stainless steel
Excitation	10 V DC
Output	143 mV full range
Thread	1/4" BSP
Construction	Stainless Steel.
Excitation	10vDC.
Thread	1/4 BSP.
Construction	Stainless Steel.
Excitation	10vDC.
Thread	1/4 BSP.



70mm Triaxial Cell 1700Kpa with 5 Pressure/ Drainage Ports. Supplied with Two Valves.

Code: [25-4117](#)

Product Group: [Triaxial Cell](#), [Triaxial Cells](#)

- Working pressure up to 1700 kPa
- All round visibility
- Sample sizes 38 to 100 mm diameter
- Rapid assembly and dismantling
- Accepts a range of interchangeable submersible load transducers

This range of precision made triaxial cells has been designed to meet the requirements of the modern soils laboratory. The cells have been treated to minimise corrosion. Particular attention has been paid to the quality of finish between the piston and the head. Final assembly includes the fitting of an O-ring seal and the use of special lubricant to reduce friction to a minimum and eliminate water leakage.

The piston load capacity is designed to accept high horizontal forces which may be present during the final stages of a test. Each cell has five take-off positions drilled in the base for top drainage/back pressure, pore water pressure and bottom drainage. Two no-volume change valves and an anvil for strain gauge/transducer datum are supplied for fitting to the cell.

A feature of these cells is that they all accept a single diameter piston. The internal height is such that a range of submersible load transducers can be fitted without any modification. Each cell will accept a range of base adaptors and various accessories for testing a wide range of specimens

Standards

BS 1377, ASTM D2850, ASTM D4767, ASTM D7181, AASHTO T296, AASHTO T297

Specification

Cell size	70 mm
Max specimen size	70 x 140 mm
Working pressure	1701 kPa
Max piston load	46 kN
Vertical clearance required	430 mm
Horizontal clearance required	180 mm
Weight kg	7.3
Maximum Working Pressure	25 0 psi (1,700 kPa).
Maximum Piston Load	10,100 lbf. (45 kN).

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Maximum Specimen Size	2.8" (70 mm) diam. x 5.6" (140 mm) l.
Required Clearance	17" (430 mm) vertical; 7.1" (180 mm) horizontal.
Weights	Net 16 lbs. (7.3 kg).



Tri-Flex 2 Master Control Panel, English 110vAC

Code: [25-0696/02](#)

Product Group: [Tri-Flex 2 Master Control Panel](#)

Standards

ASTM D2850, ASTM D4767, ASTM D7181, ASTM D5084, AASHTO T296, AASHTO T297

Further Information

110vAC, 50/60 Hz, 1Ø.

Specification

Measurement Range	10-4 to 10-10 cm/sec.
Master Regulator	2 to 150 psi (14 -1,034 kPa), dual scale.
Master Pressure Gauge	2 to 160 psi (14 -1,103 kPa), dual scale.
Master Vacuum Gauge	0 to -30 inches of Hg (0-100 kPa), dual scale.
Digital Pressure Meter	English: 2 to 15 0 psi range; $\hat{A}\pm 0.1$ psi; $\hat{A}\pm 0.25$ % accuracy full scale. Metric: 14 to 1,034 kPa range; $\hat{A}\pm 1$ kPa; $\hat{A}\pm 0.25$ % accuracy full scale.
Burette Pressure Regulators	Three; 2 to 15 0 psi (14 -1,034 kPa).
Burette/Annulus	Three; 25 /400 ml capacity with 0.1 ml burette graduations.
Utilities Required	Water, vacuum, Dry air pressure, drain and AC power supply.
Dimensions	21 ˆ w. x 36-3/4ˆ h. x 7ˆ d. (17ˆ d. with legs); (533 x 933 x 178 mm).

Product Sheet

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Weight

Net 50 lbs. (22 .7 kg).



Combination Permeameter

Code: 25-0623

Product Group: Combination Permeameter Constant or Falling Head, Combination Permeameter

- Plated steel chamber head assembly
- Corrosion-resistant cast aluminum base assembly
- Includes accessories for conducting both constant and falling head permeability studies

This combination permeameter has a transparent plastic chamber for soil specimens of either fine-grained or coarse-grained soils. Generally, soils containing 10 percent or more particles passing a 75 μm sieve are tested using the falling head assembly. More granular soils, containing 90 percent or more particles retained on the 75 μm sieve, are tested using the constant head assembly.

The cell is sealed at the top so that a vacuum may be used to saturate the specimen. Porous stones located at the top and bottom of the cell prevent sample flaking or washout. For constant head tests, a plastic funnel reservoir is mounted on an upright attached to the cell, providing a maximum head of 550 mm. Falling head tests are performed using the graduated pipette falling head reservoir, which gives a maximum head of 1000 mm and is graduated 0.2 ml.

Specification

Specimen size	63.5 x 63.5 mm (dia x l max) when using lower chamber only, 63.5 x 140 mm (dia x l max) when using both lower and extension chambers
Chamber	Transparent plastic, two sections
Base	Cast aluminium
Top seal	Plated steel with gaskets
Porous Stones	62.7 x 12.7 mm (diameter x thickness)
Constant head	Plastic, funnel reservoir, 550 mm maximum head
Falling head	Graduated pipette, 100 ml x 0.2 ml, 1000 mm maximum head
Weight kg	5
Specimen Size	2-1/2" diam. x 2-1/2" l. max. (63.5 x 63.5 mm) when using lower chamber only; 2-1/2"

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Capacity	diam. x 5-1/2" l. max. (63.5 x 140 mm) when using both lower and extension chambers. Clear lucite; 1/4" (6.3 mm) wall; two sections.
Base	Cast aluminum.
Top Seal	Plated steel with gaskets.
Porous Stones	Mounts at top and bottom; 2.47" diam. x 1/2" thick (62.7 x 12.7 mm); 105-120 permeability rating; 300 micron, average pore size.
Constant Head	Plastic; funnel reservoir; 55 cm maximum head.
Falling Head	Graduated pipette; 100 cc x 0.2 cc; 100 cm. maximum head.
Weight	Net 11 lbs. (5 kg).

Spares/Consumables



Porous Stone 2.47" x .50"

Code: [T-308](#)



DS7.2 Permeability in a Triaxial Cell Program for Windows 7, 32/64 bit

Code: [27-1768](#)

Product Group: [DS7, DS7.2 Permeability in a Triaxial Cell Software](#)

This program provides data for the determination of permeability of soil specimens using a triaxial cell and two volume change units in accordance with BS 1377.