

27 Soil Testing - Electronic Instrumentation

ELE Datasystem Geotechnical Testing

- ◆ System comprises software, ADU datalogger and Transducers
- ◆ Options available for Triaxial, Consolidation, Direct/Residual Shear and CBR tests
- ◆ Automates data logging, analysis and reporting to British Standards and ASTM/AASHTO
- ◆ Accurate and repeatable test procedures
- ◆ Multi-tasking; perform several tests concurrently
- ◆ Easily expandable
- ◆ Import and export of sample data in AGS format

The ELE DataSystem is a unique instrument designed to interface with laboratory testing equipment, thereby allowing technicians to perform other activities. It provides geotechnical engineers with fully automated data collection and analysis capabilities for the laboratory.

The system has been tailored to suit the requirements of a wide range of customers including commercial testing laboratories, educational and government bodies. Contractors and consultants will quickly realise the productivity benefits of ELE DataSystem, while students in educational institutions will have the added benefit of direct involvement in the use of computer technology related to conventional materials testing methods.

Through ELE DataSystem and your computer, you will achieve not only professional testing procedures in accordance with industry standards, but also cost-effective benefits in productivity and reduced operator fatigue. You can eliminate the need for overtime, night shifts and weekend shifts for data logging purposes, while automated logging enables greater utilisation of working hours. Considerable time can also be saved in the recording and calculation of tests, with automatic printing and plotting of test results for direct entry into reports.

The ELE DataSystem can be configured to work on a wide variety of laboratory testing devices, including equipment not manufactured by ELE. Our highly trained technical service group is always available to help develop a system that best meets your requirements.

ELE Datasystem equipment can be divided into three main groups



ELE DataSystem Software

Specially written software packages designed to record, analyze, and report test data guiding the user through testing procedures in accordance with British Standards or ASTM/AASHTO.



ELE Autonomous Data Acquisition Unit (ADU)

A sophisticated data acquisition unit with on-board intelligence and memory capability.



ELE DataSystem series Transducers

A complete range of transducers linking popular geotechnical soils testing devices to the ADU.

Datasystem 7 Geotechnical Software

- ◆ Windows® compatible software packages
- ◆ Automatic Report Generation in accordance with British Standards and ASTM/AASHTO (MS Word required)
- ◆ Real-time graphical outputs both to screen and printer as required
- ◆ Tests can be performed using SI, Imperial or Metric units
- ◆ Test stages have built-in functions to aid 'on the fly' calculation of set-up parameters where appropriate

DataSystem 7 Geotechnical software is a powerful data analysis and reporting software suite designed to work in conjunction with ELE's ADU datalogger and Transducers. The software incorporates advanced features such as intelligent data analysis, automatic report generation (MS Word required), and AGS data exchange compatibility.

