

84 GDS Helpsheet



*World Leaders in Computer Controlled Testing
Systems for Geotechnical Engineers and Geologists*

Software

GDSLAB

Overview

1. Introduction

GDSLAB will enable the user to run either single or multiple soil mechanics laboratory tests by computer control from one computer. These tests will include triaxial, consolidation, direct shear, or data acquisition tests. Each test is considered as being carried out by a 'Station'. Each Station has its' own designated hardware or 'devices'.

When running the program, GDSLAB will enable the user to have some test stations running while simultaneously configuring stations for other tests.

The GDSLAB configuration utility has been designed as a means for the user to easily configure their system. The user may either configure their whole system prior to commencing any tests, or configure individual test stations while tests are running on other test stations within the same system.

This utility enables the user to specify both the logical device type (e.g. Axial Controller) and the physical device type (e.g. Bishop & Wesley Cell), along with the station number and type (Triaxial, Consolidation etc.). The user also specifies the type of communications being used (RS232, Parallel, IEEE, manual input) and the communications parameters appropriate to the method of communication.

Each device to be configured is entered by means of the configuration form. This is an interactive form which enables the user to select the parameters for the device. Once the data has been entered the user selects the 'Add to Configuration' button. This transfers the data to the main configuration form (configdisp.frm). This form is presented as a grid where the user can review the data they have entered. They may edit or delete existing data and add new data by means of either the buttons or drop down menus at the top of the screen. The user may also save the configuration to disk for use at a later date, and may also open existing configuration files.