

91 GDS Helpsheet



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

Hardware

Triaxial Testing Systems

Measurement of Negative Pore Pressures

1. Introduction

The following notes apply to a fully saturated test specimen.

- In the undrained state changes in cell pressure are reflected in identical changes in pore-water pressure - therefore the radial effective stress does not change with cell pressure change.
- Normally a “gauge” pressure transducer will not accurately measure pressures which are more than 80kPa below atmospheric pressure.

If you expect pore water pressures less than -80kPa during undrained shearing, you must test at higher radial stresses (cell pressure).