

89 GDS Helpsheet



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

Hardware

STD & ADV Controller

Pressure Fluctuation

1. Introduction

It has been reported that in some circumstances the GDS advanced controllers can go into a pressure control oscillation when under target pressure control. The oscillation is characterised by the pressure changing by +/- 10 kPa to +/- 20 kPa with a period of 2-4 seconds.

This problem is normally related to the length of the pipework between the cell pressure controller and the cell. Some lengths cause oscillation. The tube should be 8mm diameter and as short as possible. A length of 500 mm tends to cause oscillation. Lengths of less than 300 mm are stable.