

98 GDS Helpsheet



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

Hardware

Transducers

Accuracy and Resolution

1. Introduction

TRANSDUCER	ACCURACY		RESOLUTION		
	%	in units	1/4000	1/10000	1/32000
Wet-Wet Differential Type Z 400kPa	0.25 %	1kPa	0.1	0.04	0.02
Type TJE 400kPa	0.1 %	0.4kPa	0.1	0.04	0.02
Standard Controller 4000kPa	0.1 %	4kPa	1	1	-
Advanced Controller 2000kPa	0.1 %	2kPa	0.5	0.2	-
Load Cell 4kN	0.1 %	4N	1N	0.4N	-
Axial Disp. 40mm	0.25 %	100µm	10µm	5µm	2µm
Hall Effect 6mm	0.8 %	50µm	2µm	1µm	0.3µm
Pore Xducer 2000kPa	0.1 %	2kPa	0.5kPa	0.2kPa	0.1kPa
Standard Controller Volume Change STD 200cc	0.25% of Volume Change	0.25% of Volume Change +50 cu.mm backlash	1 cu.mm	1 cu.mm	-
Advanced Controller Volume Change SDV 200cc	0.1% of Volume Change	0.1% of Volume Change + 20 cu.mm backlash	1 cu.mm	1 cu.mm	-