

00 Helpsheet



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

General

GDS Instruments Nomenclature and Abbreviations

1. Introduction

GDS uses a wide range of nomenclature, acronyms and abbreviations to represent the names of different pieces of hardware and software. This helpsheet serves to provide a list of commonly used terms in GDS.

2. Terms

- ADS – Automated Direct Shear System
- ADVDPCC – Advanced Digital Pressure/Volume Controller
- ADVDCSS – Combined Advanced Dynamic Cyclic Simple Shear System
- ADVTTS – Advanced Triaxial Testing System
- BES – Bender Element System
- CRS – Constant Rate of Strain Cell (for consolidation testing)
- CSWS – Continuous Surface Wave System
- DCS – Digital Control System
- DTI – Digital Transducer Interface
- DPI – Digital Pressure Interface
- DYNTTS – Electromechanical Dynamic Triaxial Testing System
- ELDCS – Enterprise Level Dynamic Control System
- ELDPC – Enterprise Level Pressure/Volume Controller
- ELDyn – Enterprise Level Dynamic Triaxial System
- EMDCSS – Electromechanical Dynamic Cyclic Simple Shear System
- GDS – Global Digital Systems
- GDSBES – GDS Bender Element System
- GDSBPS – Saturated/Unsaturated Back Pressured Shearbox
- GDSCTAS – Cyclic Triaxial Automated System
 - STDCTAS – model with standard controllers
 - ADVCTAS – model with advanced controllers
- GDSCTS – Consolidation Testing Systems (Rowe & Barden Cell)
 - STDCTS – model with standard controller
 - ADVCTS – model with advanced controller
 - HPCTS – model using high pressure controllers

GDSFA – Force Actuator
GDSHLF – Hydraulic Axial/Radial Loading Frame
GDSTAS – GDS Triaxial Automated System
 STDTAS – model with standard controllers
 ADVTAS – model with advanced controllers
 HPTAS – model with high pressure controllers
GDSTTS – Triaxial Testing System
 STDTTS – model with standard controllers
 ADVTTTS – model with advanced controllers
 HPTTS – model with high pressure controllers
GDSLALB – GDS Laboratory control and acquisition software
GDSLALB REPORTS – GDS Laboratory Reporting software
GDSLALDCTTS – Large Diameter Cyclic Triaxial Testing System
GDSND – Nold DeAerator
GDS SS-HCA – Hollow Cylinder Apparatus
 SS-HCA d – dynamic loading system
 SS-HCA s – static loading system
GDSVIS – Virtual Infinite Stiffness System (axial loading frame)
HAVCD – High Accuracy Volume Change Device
LVDT – Linear Variable Differential Transformer (used in local strain transducers)
PAD – Serial or Parallel Data Acquisition Device (commonly referred to as a PAD)
RCA – Resonant Column Apparatus
RFM – Remote Feedback Module
SATCON – Saturation and Consolidation
STDDPC – Standard Digital Pressure Controller
STDDPCv2 – Standard Digital Pressure Controller version 2
STDTTS – Standard Triaxial Testing System
SASW – Spectral Analysis of Surface Waves
SATCON – Saturation and Consolidation

If you have any problem or any further questions please do not hesitate to contact the GDS support team by visiting the support section on our website: <http://gdsinstruments.helpserve.com/>