

154 GDS Helpsheet



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

Hardware

ISCO 500D Pressure/Volume Pump

Required Settings for ISCO 500D Pump

1. Notes

*These settings apply to both ISCO 260D and 500D pumps.

2. Hardware & Software Settings

The GDSLab .ini file should contain the following information to successfully communicate with the ISCO 500D pump (Baud = 9600, Parity = n, Data Bits = 8, Stop Bits = 2):

(1) The space generally used for the hardware device sub-type should be set to the ID number entered within the ISCO pump itself (typical values range from 0 – 7).

(2) The channel numbers for pressure and volume begin at 11 – if more than one ISCO 500D pump is connected to the system channel numbers 13 & 14, 15 & 16 etc should be used for additional pumps.

(3) The example .ini file shown below can be found within the GDSLab Sample Hardware Ini files.

```
ISCO_500D.ini
1  [ISCO 500D Pressure/Volume Pump]
2  *Test Type and Calcs
3  CreateanObject,7,GDS_ctTriaxialCalcs,Filename?,1,N/A
4  *Create a Cell Type
5  CreateanObject,0,GDS_TraditionalCell,,,
6
7  *ISCO 500D PUMP
8  CreateanObject,1,GDS_TRANSDUCER,,2,Cell Pressure
9  CreateanObject,1,GDS_TRANSDUCER,,3,Cell Volume
10 CreateanObject,2,GDS_ControlParameter,Filename?,302,CP Cell Pressure
11 CreateanObject,2,GDS_ControlParameter,Filename?,303,CP Cell Volume
12 CreateanObject,3,GDS_ISCO500D,,6,ISCO 500D
13 CreateanObject,4,GDS_ISCO500D,,6,ISCO 500D
14
15 *Comms
16 CreateanObject,5,GDS_COMMPORT,commport1.txt,,Comm Port 1
17 [Connections]
18 *SET ALL CONNECTIONS
19 *Type num type num
20
21 *ISCO 500D PUMP
22 SetConnection,1,Cell Pressure,3,ISCO 500D,11
23 SetConnection,1,Cell Volume,3,ISCO 500D,12
24 SetConnection,2,CP Cell Pressure,4,ISCO 500D,11
25 SetConnection,2,CP Cell Volume,4,ISCO 500D,12
26 SetConnection,3,ISCO 500D,5,Comm Port 1,1
27 SetConnection,4,ISCO 500D,5,Comm Port 1,1
```