

PROTSURV DuoCON

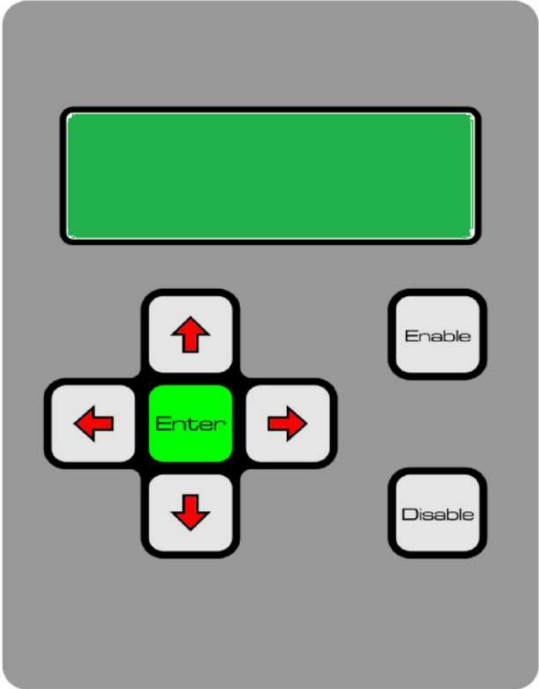
Digital Control System

CBR Setup - Operation Manual

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1. Operation for CBR Testing



Switch On DuoCon Control Unit
On Back Side Of This Unit



Protsurv Geo Centre
+2711 976 2070
Protsurv V2.00
CBR Press x.xx



Protsurv Geo Centre
CBR
2014/01/13 07:39
Press Enter

PRESS ENTER To Go To Main Menu



Load	0.01 kN
Displace	0.01 mm
*Run Test	
*Setup	

To Select Test, Scroll down
 To Run Test And Press Enter
 MAKE SURE THE SWITCH ON
 FRONTPANEL ARE ON THE AUTO
 POSISTION!!!



*CBR
*UCS
*More Tests
*Return

Select CBR And Press Enter



*Load Rate	1.27mm/min
*Test Setup	
*Run Test	
*View Last Test	

To Setup Test Scroll
 Down to Test Setup And
 Press Enter



*Batch No	aaa-000
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To RUN Test Scroll Down To
 RUN Test And Press Enable



Approaching Sample	
Load	0.01 kN
Displacement	0.00 mm
Time	00:01

Approaching Will Begin And
 Run Until Sample has been
 Touched And will Start
 Running The Test



Running Test	
Load	0.05 kN
Displacement	0.01 mm
Time	00:00

Test will Run For 7min And
 30 Sec And Log And Show
 The Penetration Results
 Every 30 Seconds And Will

Version 1

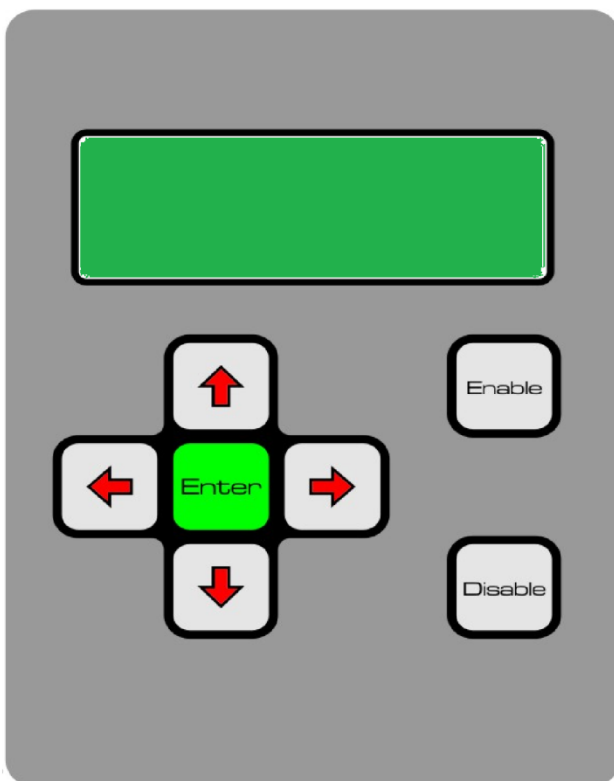
Retract when test are Complete



Retracting	
Load	25.05 kN
Displacement	9.53 mm
Time	07:30

When Retracting Are Complete The Results Can Be Viewed By Scrolling With The Left And Right Arrow Keys

2. Operation for UCS Testing



Switch On DuoCon Control Unit
On Back Side Of This Unit



Protsurv Geo Centre
+2711 976 2070
Protsurv V2.00
CBR Press x.xx



Protsurv Geo Centre
CBR
2014/01/13 07:39
Press Enter

PRESS ENTER To Go To Main Menu



Load 0.01 kN
Displace 0.01 mm
*Run Test
*Setup

**To Select Test, Scroll down
To Run Test And Press Enter
MAKE SURE THE SWITCH ON
FRONTPANEL ARE ON THE AUTO
POSITION!!!**



*CBR
*UCS
*More Tests
*Return

Scroll to UCS And Press Enter



*Load Rate 84 kN/min
*Test Setup
*Run Test
*View Last Test

To Setup Test Scroll
Down to Test Setup And
Press Enter



*Batch No aaa-000

To RUN Test Scroll Down To
RUN Test And Press Enable



Approaching Sample
Load 0.01 kN
Displacement 0.00 mm
Time 00:01

Approaching Will Begin And
Run Until Sample has been
Touched And will Start
Running The Test



Running Test
Load 0.05 kN
Displacement 0.01 mm
Time 00:00

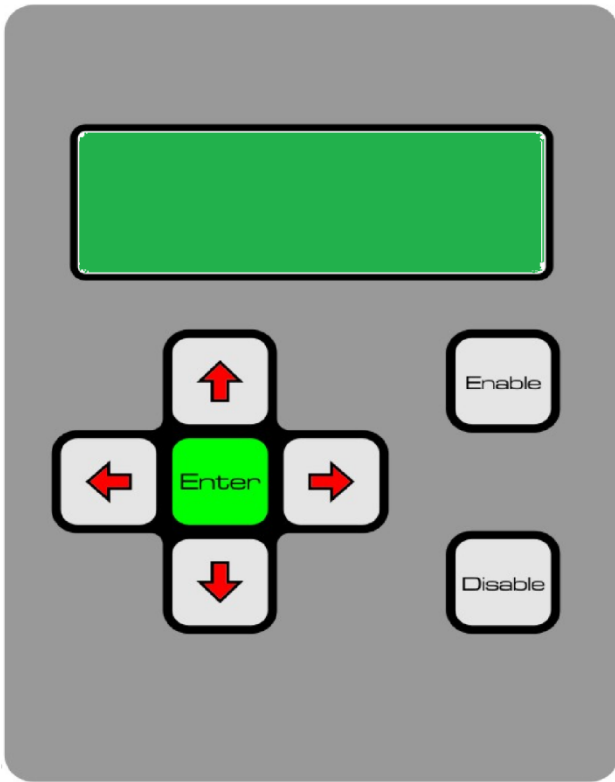
Test will Run Until The Sample
Reaches Peak Load
And Then Retracts



Retracting
Load 60.05 kN
Displacement 5.21 mm
Time 00:25

When Retracting Are
Complete The Results Are
Displayed Until Enable Are Pressed

3. Operation for ITS Testing



Switch On DuoCon Control Unit
On Back Side Of This Unit



Protsurv Geo Centre
+2711 976 2070
Protsurv V2.00
CBR Press x.xx



Protsurv Geo Centre
CBR
2014/01/13 07:39
Press Enter

PRESS ENTER To Go To Main Menu



Load 0.01 kN
Displace 0.01 mm
*Run Test
*Setup

To Select Test, Scroll down
To Run Test And Press Enter
MAKE SURE THE SWITCH ON
FRONTPANEL ARE ON THE AUTO
POSITION!!!



*CBR
*UCS
*More Tests
*Return

Scroll To More Tests And
Press Enter



*ITS
*Marshall
*Return

Scroll to ITS And Press Enter




*Load Rate 40 kN/min
*Test Setup
*Run Test
*View Last Test

To Setup Test Scroll
Down to Test Setup And
Press Enter



*Batch No aaa-000

To RUN Test Scroll Down To
RUN Test And Press Enable



Approaching Sample	
Load	0.01 kN
Displacement	0.00 mm
Time	00:01

Approaching Will Begin And Run Until Sample has been Touched And will Start Running The Test



Running Test	
Load	0.05 kN
Displacement	0.01 mm
Time	00:00

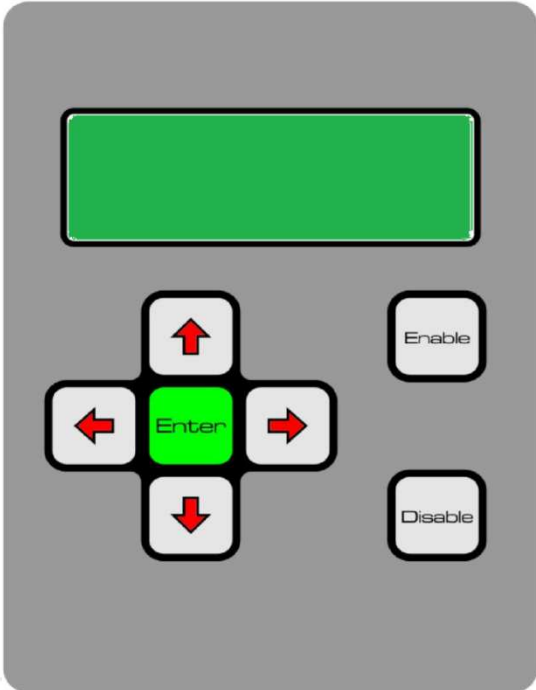
Test will Run Until The Sample Reaches Peak Load And Then Retracts



Retracting	
Load	25.05 kN
Displacement	5.21 mm
Time	00:32

When Retracting Are Complete The Results Are Displayed Until Enable Are Pressed

4. Operation for Marshall Testing



Switch On DuoCon Control Unit
On Back Side Of This Unit



Protsurv Geo Centre
+2711 976 2070
Protsurv V2.00
CBR Press x.xx



Protsurv Geo Centre
CBR
2014/01/13 07:39
Press Enter

PRESS ENTER To Go To Main Menu



Load 0.01 kN
Displace 0.01 mm
*Run Test
*Setup

**To Select Test, Scroll down
To Run Test And Press Enter
MAKE SURE THE SWITCH ON
FRONTPANEL ARE ON THE AUTO
POSITION!!!**



*CBR
*UCS
*More Tests
*Return

**Scroll To More Tests And
Press Enter**



*ITS
*Marshall
*Return

Scroll to Marshall And Press Enter



*Load Rate 50.8 mm/min
*Test Setup
*Run Test
*View Last Test

**To Setup Test Scroll
Down to Test Setup And
Press Enter**



*Batch No aaa-000

**To RUN Test Scroll Down To
RUN Test And Press Enable**



Approaching Sample	
Load	0.01 kN
Displacement	0.00 mm
Time	00:01

Approaching Will Begin And Run Until Sample has been Touched And will Start Running The Test



Running Test	
Load	0.05 kN
Displacement	0.01 mm
Time	00:00

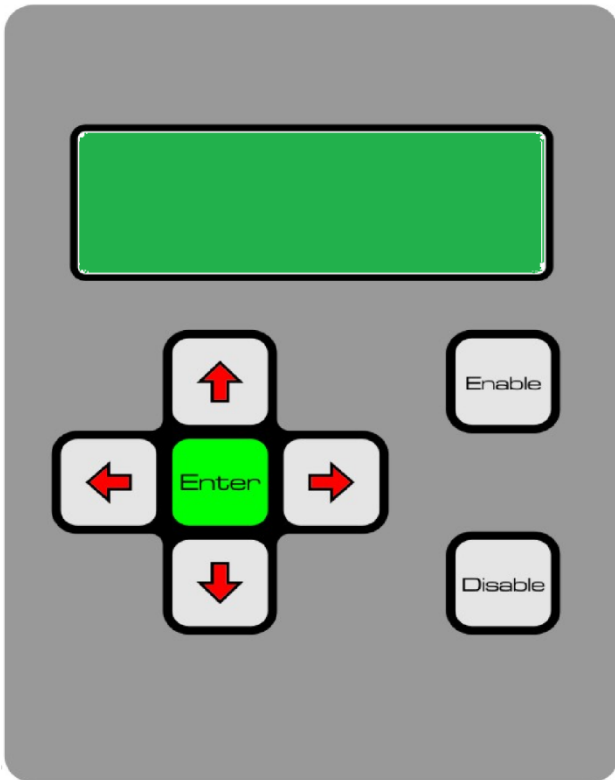
Test will Run Until The Sample Reaches Peak Load And Then Retracts



Retracting	
Stability	15.05 kN
Flow	5.05 mm
Time	00:32

When Retracting Are Complete The Results Are Displayed Until Enable Are Pressed

5. Downloading Log Files to PC



**Switch On DuoCon Control Unit
On Back Side Of This Unit**



Protsurv Geo Centre
+2711 976 2070
Protsurv V2.00
CBR Press x.xx



Protsurv Geo Centre
CBR
2014/01/13 07:39
Press Enter

PRESS ENTER To Go To Main Menu



Load 0.01 kN
Displace 0.01 mm
*Run Test
*Setup

Scroll Down To Next Page



*Set Speed
*Mass Storage Device
__Not Connected__
*Set Date & Time

**Scroll Down To Mass Storage
Device And Plug USB Cable to
Control Unit At Backside Of
Control Unit And Then To PC
THEN PRESS ENTER TO CONNECT
TO PC**



Mass Storage Device
__Connected__

**When Connected Are Displayed
The Mass Storage Device Will
Automatically Open On PC
All Logging Data can Be Copied From
LOG Folder To PC In TXT Format**