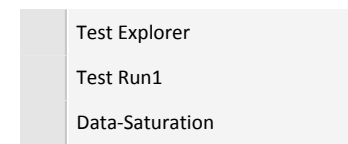
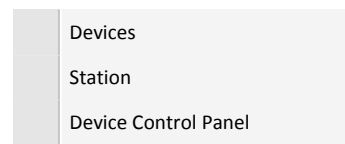
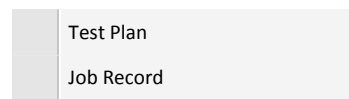
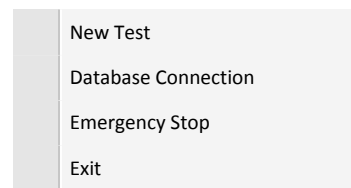
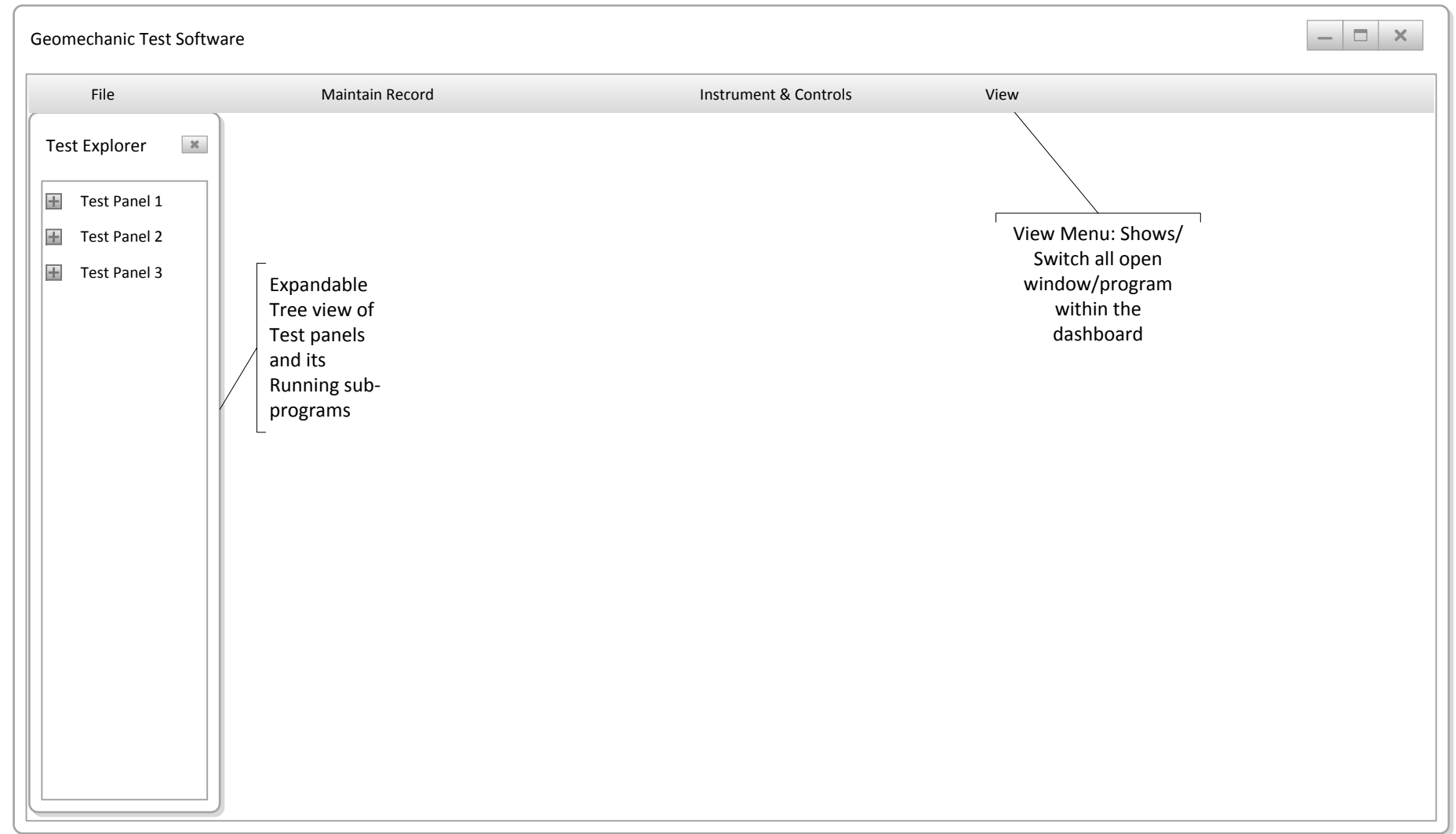


A-DASHBOARD



} Menu...extended

B-STATION

Stations

| | Name | Status | Test Type |
|-----------|-------|-----------|----------------|
| STATION 1 | CIU-1 | Available | Triaxial CU/CD |
| | | | |

CREATE NEW STATION

DELETE STATION SETUP

APPLY

OK

Device & Instruments

For triaxial shear only

Cell Pressure Control

Device1

Back Pressure Control

Device2

Vertical Load Control

Device 3

Live reading

Cell Pressure

0

kPa

Back Pressure

0

kPa

Volume Change

0

ml

Load

0

N

Displacement

0

mm

Pore Water Pressure

0

kPa

List of Stations created and available

List of Devices and their analogue channels assigned for the Station

Device & Instruments

For triaxial UU only

Cell Pressure Control

Device1

Vertical Load Control

Not Assigned

Live reading

Cell Pressure

0

kPa

Vertical Load

0

N

Displacement

0

mm

Pore Water Pressure

0

kPa

Device & Instruments

For consolidation(steped loading)/swelling/UCT

Vertical Load Control

Not Assigned

Vertical Load

N

Displacement

mm

Device & Instruments

For Shearbox

Vertical Load Control

Not Assigned

Horizontal Load Control

Not Assigned

Vertical Load

N

Vertical Displacement

mm

Horizontal Load

N

Horizontal Displacement

mm

Device & Instruments

Saturation(Incremental) / Isotropic Consolidation

Cell Pressure Control

Device1

Back Pressure Control

Device2

Live reading

Cell Pressure

0

kPa

Back Pressure

0

kPa

Volume Change

0

ml

Pore Water Pressure

0

kPa

Device & Instruments

For permeability

Cell Pressure Control

Device1

Back Pressure Control

Device2

Back Pressure 2 Control

Device3

Live reading

Cell Pressure

0

kPa

Back Pressure

0

kPa

Inlet Volume Change

0

cm3

Pore Water Pressure

0

kPa

Back Pressure 2

0

kPa

Outlet Volume Change

0

cm3

Device & Instruments

For User defined Test

Cell Pressure Control

Device1

Back Pressure Control

Device2

Back Pressure Control

Device3

Vertical Load Control

Device4

Horizontal Load Control

Device5

Cell Pressure

0

kPa

Back Pressure

0

kPa

Volume Change

0

ml

Pore Water Pressure

0

kPa

Back Pressure 2

0

kPa

Volume Change 2

0

ml

Vertical Load

0

N

Vertical Displacement

0

mm

Horizontal Load

0

N

Horizontal Displacement

0

mm

C-STATION NAME

Create New Station

Give a name for the station:

Enter Text

Select Test Type for the New Station:

Enter Text

OK

CANCEL

D-DEVICES

Devices

| Name | Type | Comm Port | Status |
|------|--------------|-----------|-----------|
| Lf1 | Load Control | Com5 | Available |
| | | | |

ADD NEW DEVICE

DELETE DEVICE

EDIT

E- ADD NEW DEVICE

Add New Device

Give a name for the device:

Enter Text

Enter the serial number of the device:

Enter Text

Select Device Type:

Enter Text

Select Comm Port:

Enter Text

Firmware Version

Enter Text

Channel 1

unit

Channel 2

unit

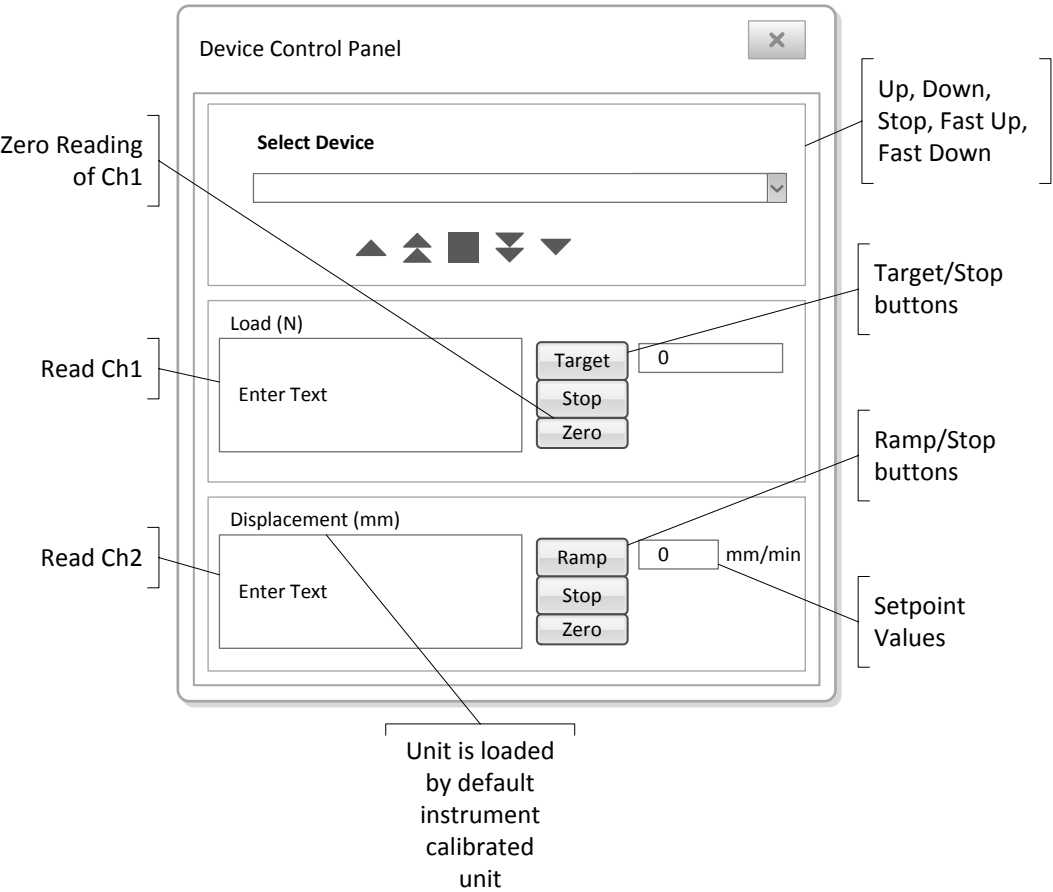
OK

CANCEL

Unit is loaded
by default
instrument
calibrated
unit

Display live
reading from
connected
device

F-DEVICE CONTROL PANEL



H-CREATE TEST

Create New Test

Select Available Test Station:

Enter Text

OK

CANCEL

I-TEST PANEL

Test Panel : Station 1 : Status - Idle

Button activated when Sample record is completed

Button Activated when Add Test record is completed... Opens window to set directory for file saving

SampleID :
Job No :
Job Description :

Fields loaded when Sample details are saved

Test Stages

| | Test Plan | Test Status |
|---------------------|---------------|-------------|
| <u>Test Stage 1</u> | Saturation300 | Idle |
| | | |

Remove Stage

Run Test

Button Activated when Test Stage exist

The screenshot shows a software window titled 'Test Panel : Station 1 : Status - Idle'. It features three buttons at the top: 'Sample', 'Add Test', and 'Save DIR'. The 'Add Test' button is annotated with 'Button activated when Sample record is completed'. The 'Save DIR' button is annotated with 'Button Activated when Add Test record is completed... Opens window to set directory for file saving'. To the right of these buttons are three text input fields: 'SampleID :', 'Job No :', and 'Job Description :', grouped by a bracket and annotated with 'Fields loaded when Sample details are saved'. Below these is a 'Test Stages' section containing a table with columns 'Test Plan' and 'Test Status'. The first row shows 'Test Stage 1' (underlined), 'Saturation300', and 'Idle'. Below the table are two buttons: 'Remove Stage' and 'Run Test'. The 'Run Test' button is annotated with 'Button Activated when Test Stage exist'.

Test Plan : Station 1: Sample Details

Select Existing Job from the list:

| JobNo | Job Description |
|--------|-----------------|
| GG5003 | Research |
| | |

Create New

Specimen Details

| | Fields |
|------------|--------|
| SampleID | |
| Depth | |
| Height(mm) | |
| Dia(mm) | |

Save

Edit

Ok

J-SAMPLE

K-ADD TEST

Test Plan : Station 1: Add Test

Select Test Plan from the list:

Saturation300.gs

OK

L-TEST PLAN TEMPLATE

Test Plan

Create New Template

Edit

Delete Template

Test Plans

Test Plan

Saturation300.gs

Consolidation600-200.gs

M-RUN TEST

Run Test : Station 1 : "Stage 1: TestPlan" - Idle

Test Stages

01 - Saturation300

02 - Consolidation500

03 - Shearing01

STATION 1

RUNNING

START/PAUSE

NEXT STAGE

END STAGE

☒ Go to next Stage automatically

Test Parameters

Cell Pressure, kPa

Enter Text

Back Pressure, Kpa

Enter Text

Pore Water Pressure. kPa

Enter Text

Volume Change, cm3

Enter Text

Load, kN

Enter Text

Displacement, mm

Enter Text

Shear rate mm/min

Enter Text

Elapsed Time

HH:MM:SS

Plot 1

Plot 2

Plot 3

Data View

Number of readings logged

X-Axis

Y-Axis1

Y-Axis2

Test Parameters differs based on test type, refer below for the configuration

- Opens separate window to view data

| Test Parameters | |
|--------------------------|---|
| | For ISOTROPIC CONSOLIDATION |
| Cell Pressure, kPa | <input type="text" value="Enter Text"/> |
| Back Pressure, Kpa | <input type="text" value="Enter Text"/> |
| Pore Water Pressure. kPa | <input type="text" value="Enter Text"/> |
| Volume Change, cm3 | <input type="text" value="Enter Text"/> |

| Test Parameters | | For INCREMENTAL SATURATION | |
|--------------------------|---|----------------------------|---|
| Cell Pressure, kPa | <input type="text" value="Enter Text"/> | B-Value, % | <input type="text" value="Enter Text"/> |
| Back Pressure, Kpa | <input type="text" value="Enter Text"/> | | |
| Pore Water Pressure. kPa | <input type="text" value="Enter Text"/> | | |
| Volume Change, cm3 | <input type="text" value="Enter Text"/> | | |

| Test Parameters | | For TRIAXIAL SHEAR TEST | |
|--------------------------|---|-------------------------|---|
| Cell Pressure, kPa | <input type="text" value="Enter Text"/> | Load, kN | <input type="text" value="Enter Text"/> |
| Back Pressure, Kpa | <input type="text" value="Enter Text"/> | Displacement, mm | <input type="text" value="Enter Text"/> |
| Pore Water Pressure. kPa | <input type="text" value="Enter Text"/> | | |
| Volume Change, cm3 | <input type="text" value="Enter Text"/> | Shear rate mm/min | <input type="text" value="Enter Text"/> |

| Test Parameters | | For PERMEABILITY | |
|--------------------------|---|---------------------------|---|
| Cell Pressure, kPa | <input type="text" value="Enter Text"/> | | |
| Back Pressure, Kpa | <input type="text" value="Enter Text"/> | | |
| Pore Water Pressure. kPa | <input type="text" value="Enter Text"/> | Back Pressure2, Kpa | <input type="text" value="Enter Text"/> |
| Inlet Volume Change, cm3 | <input type="text" value="Enter Text"/> | Outlet Volume Change, cm3 | <input type="text" value="Enter Text"/> |

| Test Parameters | | For TRIAXIAL UU | |
|--------------------------|---|-------------------|---|
| Cell Pressure, kPa | <input type="text" value="Enter Text"/> | Load, kN | <input type="text" value="Enter Text"/> |
| Pore Water Pressure, kPa | <input type="text" value="Enter Text"/> | Displacement, mm | <input type="text" value="Enter Text"/> |
| | | Shear rate mm/min | <input type="text" value="Enter Text"/> |

| Test Parameters | | CONSOLIDATION/SWELLING | |
|---------------------------|---|------------------------|---|
| Vertical Load, kN | <input type="text" value="Enter Text"/> | Vertical Stress, kPa | <input type="text" value="Enter Text"/> |
| Vertical Displacement, mm | <input type="text" value="Enter Text"/> | | |

| Test Parameters | | For SHEARBOX |
|-----------------------------|---|--|
| Vertical Load, kN | <input type="text" value="Enter Text"/> | Vertical Stress, kPa <input type="text" value="Enter Text"/> |
| Vertical Displacement, mm | <input type="text" value="Enter Text"/> | |
| Horizontal Load, kN | <input type="text" value="Enter Text"/> | |
| Horizontal Displacement, mm | <input type="text" value="Enter Text"/> | Shear rate mm/min <input type="text" value="Enter Text"/> |

ic

| | | |
|-------------------|---|--|
| Test Parameters | For UCT | |
| Load, kN | <input type="text" value="Enter Text"/> | Vertical Stress, kPa <input type="text" value="Enter Text"/> |
| Displacement, mm | <input type="text" value="Enter Text"/> | |
| Shear rate mm/min | <input type="text" value="Enter Text"/> | |

Vertical Stress = Load/Area
Applicable for all field of Vertical Stress

| Test Parameters | | For User Defined Test | |
|----------------------------|----------------------|-----------------------|---|
| Cell Pressure Transducer | <input type="text"/> | kPa | Volume Change 1 <input type="text"/> cm3 |
| Back Pressure Transducer | <input type="text"/> | kPa | Volume Change 2 <input type="text"/> cm3 |
| Back Pressure 2 Transducer | <input type="text"/> | cm3 | Volume Change 3 <input type="text"/> cm3 |
| Pore Pressure Transducer | <input type="text"/> | kPa | |
| Pore Pressure 2 Transducer | <input type="text"/> | kPa | |
| Vertical Load Transducer | <input type="text"/> | N | Horizontal Load Transducer <input type="text"/> N |
| Vertical Displacement | <input type="text"/> | mm | Horizontal Displacement <input type="text"/> mm |

N-DATA VIEW

Test Panel 1 : "testxxx"

JobNo

Job Description

Sample ID

Enter Text

Enter Text

Enter Text

Enter Text

Logged data
in Table form

O-TEST PLAN SELECT

New Test Plan

Give a name for the new Test Plan

Enter Text

Select Test Type:

Enter Text

OK

CANCEL

P-JOB RECORD

Job Record

Job No:

Enter Text

Job Description:

Enter Text

Add

| JobNo | Job Description |
|-------|-----------------|
| GG003 | Research |
| | |

Delete

Ok

Q-TEST PLAN TEMPLATE

Test Plan Template: Saturation

File Name:

Initial Conditions

Logging Conditions

Stopping Conditions

Apply