

## ASLT automatic static load test system

V1.0



### **The Auto Static Load Test (ASLT) system is purpose designed to control and monitor static load tests automatically.**

The ASLT system is supplied with a rugged site notebook, pre-loaded with the ASLT controlling software and calibration for the transducers.

The system incorporates a data acquisition battery back-up, which allows testing to continue in the event of a power failure, without the loss of any intelligence.

Improved safety features enable you to monitor tests from a safe distance of up to 25 meters, removing the need for operatives to be in close proximity to potentially dangerous, highly loaded system components.

#### Benefits

Wireless remote logging increases the safety of site operatives

Supplied with fully calibrated load cell to suit required range

Data displayed in real-time

Power failure protection

User friendly software

Customised alarming conditions

Easy to handle, rugged equipment

Testconsult complete testing package available

#### **Testconsult**

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# ASLT specifications

## Software

Data acquisition, pump control and data storage is all controlled by the user friendly ASLT software, and operated within Windows operating systems.

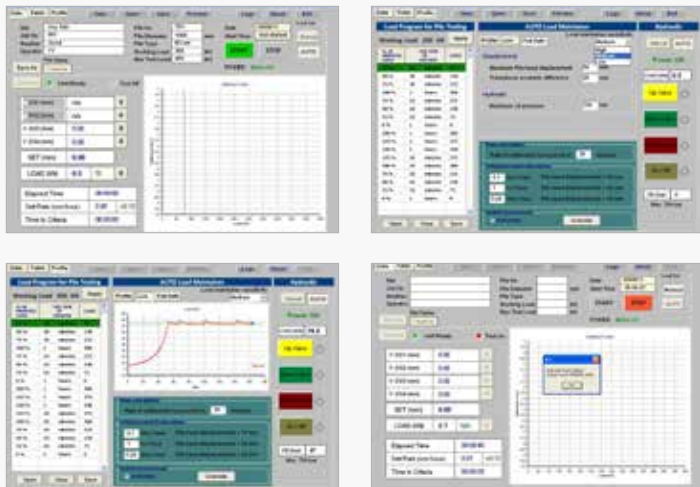
The software enables the operator to set up and save loading templates, as well as review and alter alarm settings accordingly. As the test proceeds the user can view all of the data in real-time and view plots of load versus settlement.

Displacement gauges can be calibrated in-situ with supplied gauge block and re-set remotely. Should the test be halted for any reason e.g. power failure, there are routines which enable the test to recommence without any loss of data.

## How it works

The load, deflection and load maintainer readings are collected by the ASLT data logger and downloaded to a rugged on site PC. All data is presented in accordance with Eurocode7-EN-1997, the European standard for design of geotechnical structures.

Our user friendly system allows data to be viewed in real-time, comparing plots of load versus settlement as testing progresses. The software enables users to set up and save loading templates, and to also review and alter alarm settings accordingly.



## Acquisition and control unit

Features	Real time load and displacement display Safe and automatic logging of data Automatic application of test load Rugged site suitable transducers ASCII output of data Automatic report generation
Acquisition unit	16 channel DAQ unit - with input/output channels
Data storage	Data files are stored to the connected PC as the test proceeds and includes real-time, elapsed time, load 4No displacement readings, average settlement and rate of settlement. Full header information is also stored including site, job no, weather, operator, pile no, pile diameter, pile type, working load, max test load, date and start time.
Load control	Voltage output to suitable hydraulic load maintainer
Dimensions	L 550mm x W 450mm x D 120mm
Weight	Approx 12 Kg
Connectors	Waterproof mil spec and rugged Jaegar type - each uniquely marked
Power	110/250VAC inputs
Displacement transducer type	4No linear
Displacement transducer range	0-100mm
Displacement transducer resolution	0.01mm
Load cell type	Stainless steel, non-indicating compression type, IP68 protected
Load cell range	25 to 1000 Te
Operating temperature	-20°C to +65°C
Accuracy	± 0.3% of applied load
Pressure transducer (optional)	0-700bar IP67 protection 0.25% accuracy Operating temperature range -20°C to +65°C
Real-time display	Average settlement v load curve Settlement for each displacement transducer Load Load v template curve Rate of settlement
Print output	Table: Time, elapsed time, displacements, load and settlement rate Graph: Applied load v settlement Graph: Applied load and settlement v time

**All of our equipment is supplied fully calibrated to UK national standards.**

## ASLT user training

We provide full training for all equipment purchased from Testconsult. Our training sessions are created and led by our in-house experts, providing you with the skills and knowledge needed to operate the equipment safely, efficiently and with confidence.

We offer classroom and site training within the UK, on-site training overseas and virtual classroom training. No matter what your needs or technical experience we can provide the right training solution for your requirements.



**We are always happy to help find the appropriate, tailored solutions for your business needs. If you have any requests or suggestions please do not hesitate to contact us.**