

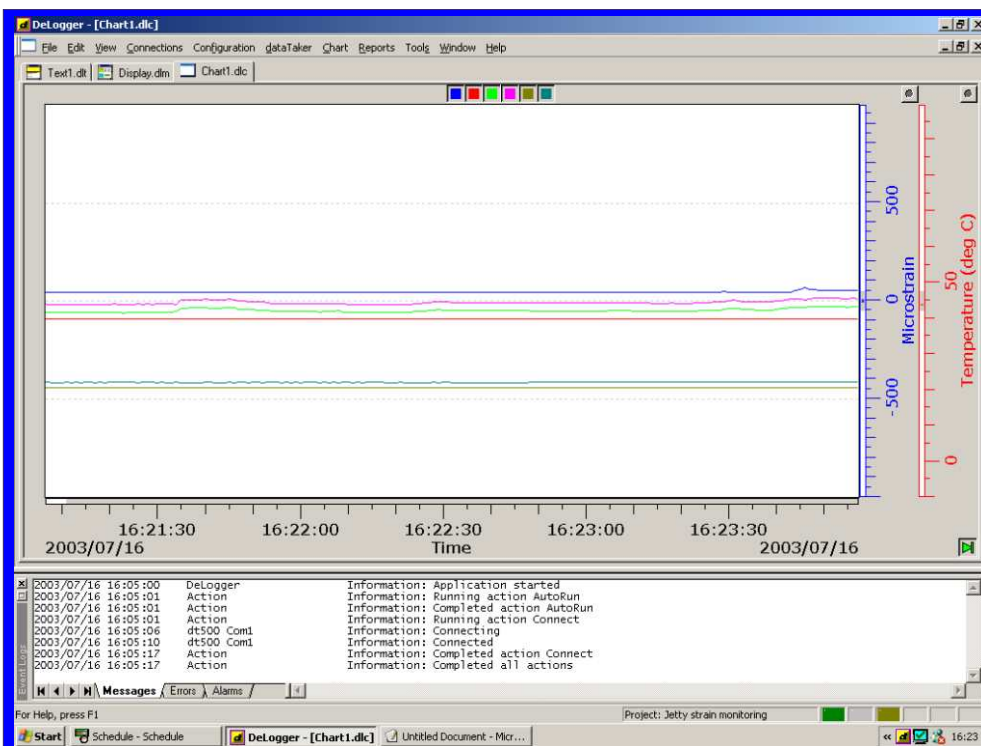


### Project : Posford Haskoning

Strainstall were contacted by Posford Haskoning to provide a stress monitoring system for the HSS (high speed Stena) link span in Dun Loaghaire, Ireland. Posford Haskoning had recently installed a mechanism to clamp the link span in position to enable ferry berthing in rougher seas than was previously possible. The system was required to monitor the effect the new clamping mechanism was having on the stress occurring within the link span structure, especially during ferry movements and periods of inclement weather.

The new Strainstall submersible Strain Link was used - two links per truss, four in total. The links are bolt on devices which locate between clamps welded to the surface. Thermocouples were installed alongside the strain rings to enable the monitoring of thermally induced stress. The ease of fitment made light work of the installation.

Signals from the sensors were fed into a DT505 data acquisition unit located in the link span control room. The DT505 was in turn connected via an RS232 link to a PC running 'DeLogge'r software. The software displays real-time data, schedules unloading of data to the PC's hard drive and manages the data.



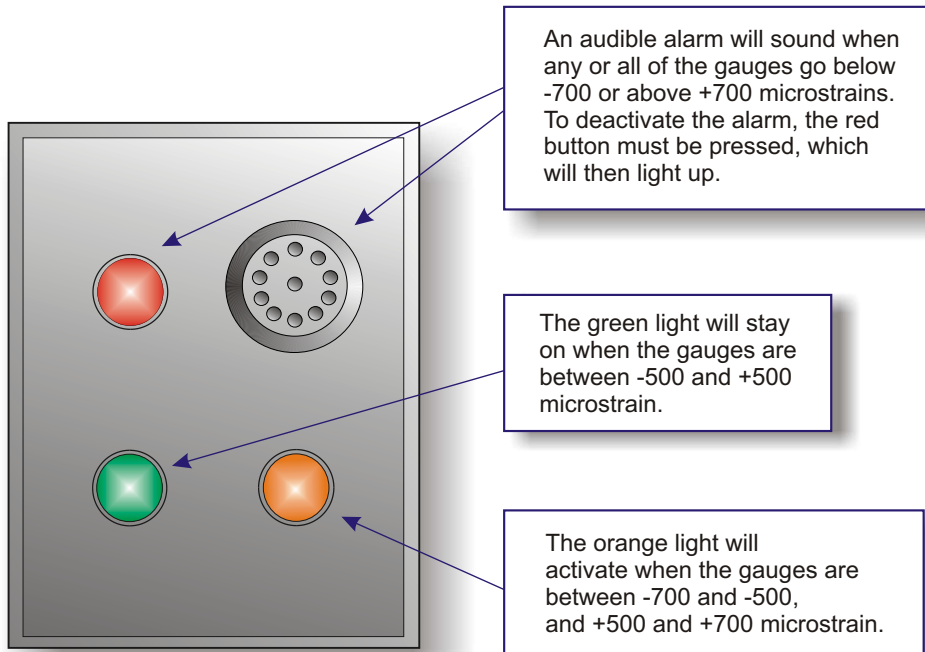
### Some Of Our Other Services Include:

- System Maintenance
- On-site Installation and Commissioning
- Trials Maintenance
- Data Collection Analysis and Reporting
- Stress Analysis
- Design Evaluation
- Service Contracts
- Torque Trials
- Special Inspections and Assessments
- Service Training Course

Strainstall UK Ltd  
9-10 Mariners Way  
Cowes  
Isle of Wight  
PO31 8PD

Tel: +44 (0)1983 203600  
Fax: +44 (0)1983 291335  
Email: sales@strainstall.co.uk  
Website: www.strainstall.com

In conjunction with the PC, a visual and audible alarm module was installed to provide an immediate warning to link span personnel as soon as any of the sensors exceed safe thresholds.



A TC35 GSM modem was installed on the PC. The modem (with the use of PC Anywhere software) enabled operation of the PC, file transfer, real-time viewing and system management from virtually anywhere in the world. A PC, modem and phone line being all that was necessary.

