



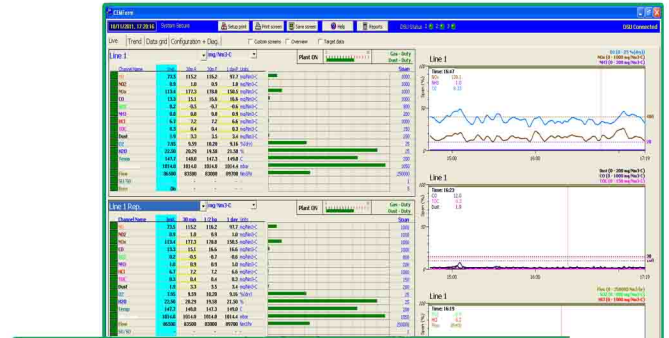
# CEMSuite - The CEMS Data Logging and Reporting Solution

## Envirosoft

We are the UK's number one supplier of emissions data logging systems, supplying to ABB, Siemens, Orbital Gas, Land Instruments, Enviro Technology Services, SICK (UK), ADC and Quantitech for use on their analysis systems.

Tried and trusted by hundreds of plant operators world-wide, we design, supply, commission and support CEM Systems to meet the requirements of all current legislation.

We are the first UK environmental software company to obtain mCERTS approval



## CEMSuite

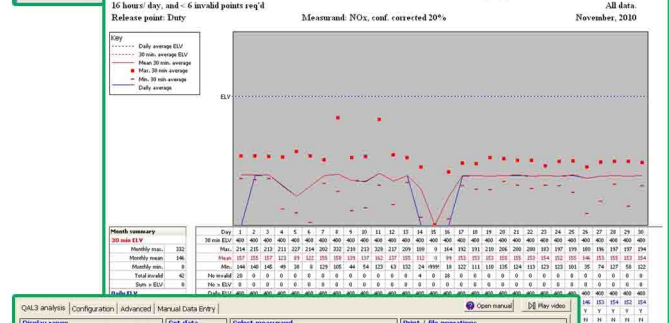
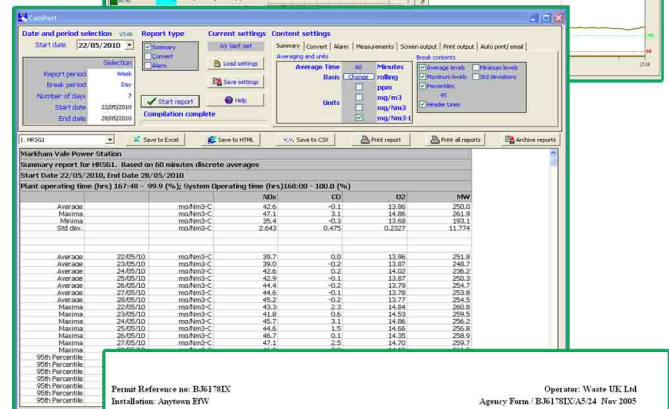
CEMSuite is our core product and provides the solution for CEMS data logging and reporting for most small boilers and power generators.

## CEMSuite +

CEMSuite + includes our QAL3 assessment software (BS EN 14181) and the EA-designed reporting for WID.

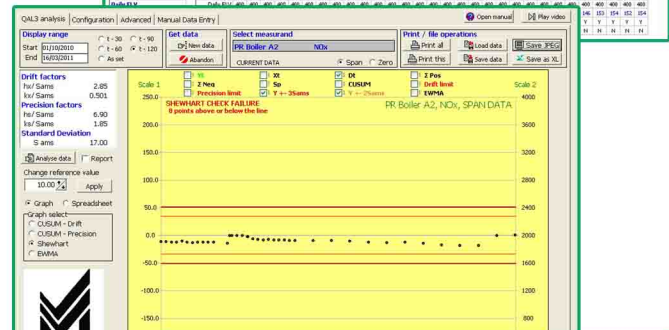
## CEMSuite Power

CEMSuite Power provides advanced reporting solutions for sites coming under the LCP Directive.



## Program Features

- Real-time and historical data screens
- User configurable alarms for multiple averages
- Calculated target levels to achieve compliance
- Advanced primary data storage facilities
- Report generation and data output to Excel, csv, html etc.
- All Programs have full MCERTS certification
- Compliant with PPC, BS EN 14181 and LCP Directives
- Latest EA designed WID report
- QAL3 analysis with CUSUM (Drift & Precision) Shewhart and EWMA charts



## QAL3 - BS EN 14181

- Automatic control chart generation
- CUSUM Drift with pass/ fail criteria
- CUSUM Precision
- Shewhart, including the pass/fail assessment according to TGN M20
- Exponentially Weighted Moving Average (EWMA)
- Summary report for rapid assessment of compliance
- Display range selectable (1 day to >1 year)
- Comment entry, storage and display
- Archiving for long term record-keeping
- Automatic calibration gas audit module

FORM A4  
 EMISSIONS TO AIR

LCPD and NATIONAL PLAN REPORTING  
 RELEASE SUMMARY FOR THE YEAR TO 30/09/10

Operator: Anpower Ltd  
 Installation: Anpower Energy Centre  
 Location: Anpower Energy Centre, The Shires  
 Permit Number: AP3644HG

Total for All Release Points

Release Point	Sulphur Dioxide (as SO <sub>2</sub> ) (Tonnes)	Oxides of Nitrogen (as NO <sub>x</sub> ) (Tonnes)	Particulates (total suspended particles) (Tonnes)
A1	5.17	39.14	0.33
A2	2.34	37.02	0.26
<b>Total</b>	<b>7.51</b>	<b>76.16</b>	<b>0.59</b>

## Specifications

### Data Screens/ reports

- Real-time display of raw/ normalised/ averaged data
- Historical data trends from all stored data (instant recall)
- User configurable alarms for multiple averages
- Email/ SMS from alarms
- Calculated target levels to achieve compliance
- QAL2 data entry and adjustment
- Report generation and output to Excel, csv, html etc.
- EA designed LCPD reports - Form Air 1-11
- EA designed WID reports
- Custom reports available
- Daily, weekly, monthly, quarterly, bi-annual and annual analysis periods
- Data acquisition of process parameters from DCS
- Multiple fuels and complex start and shut down logics
- Calculated Data Pages for:
  - Flow-weighted averages for concentrations
  - Total mass calculations from multiple stacks/ whole site
  - Switching from duty to standby analysers

### Analyser Interfaces

- **ABB** - LIMAS, URAS, MAGNOS, ACF/NT, AO2000, ACX
- **Siemens** - Ultramat23, Ultramat 6, Fidamat (All ELAN Units)
- **Land** - FGA II, 4500/Premier
- **Opsis** - AR600, AR650 + Logger
- **Gasmet** - FTIR
- **Procal** - 2000, 5000
- **ADC** - MGA3000
- **Durag** - DRx250, DR800, DR290
- **Goyen** - EMS6
- **Davis** - Weather Station
- **Environnement SA** - MIR9000
- **Sick Maihak** - RM230/210, GM31
- **Servomex** - Servopro 4900
- Analogue - 4-20mA, 0-10V etc
- Volt-free contacts for measurement validity & plant information

### Plant DCS Interfaces

- Modbus - RS232, RS485, Ethernet
- Profibus - DP
- OPC
- PI (SDK and OPC)
- Analogue (4-20mA) Retransmission
- Digital (V.F.C.C.) Retransmission

### Data Storage:

- Data Storage Unit (DSU) provides primary data storage (>10yrs)
- Up to 8 DSUs per system
- Personal computer provides inherent data backup
- Up to 192 data points: 12 pages, 16 measurands per page
- Resolution: 16 bit data, 8 bits for validity data
- Backup and redundant systems for max availability
- Storage/ update frequency: selectable, 5-10 seconds
- Averaging: 1 min to 1 year
- Data Retention: >10 Years

### Backup/ Redundancy

- Replicated data access, logging and processing
- Replicated outputs to the DCS
- Configurable for backup or redundant analyser operation
- Shared peripheral data
- Dual fibre-optic redundancy

