

ProDAHS





Protea Data Acquisition and Handling Software

Environmental and Emissions Data. Reported.

The continuous logging, reporting and assessment of emissions data is needed by plant operators, often needing to use a range of sensors and analysers to comply with local legislative requirements. Protea's Data Acquisition and Handling Software (ProDAHS) is a complete emissions reporting platform and can be provided by Protea configured for use with either Protea or 3rd party emissions equipment.

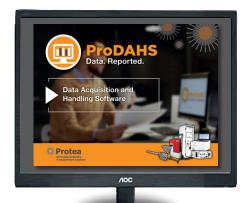
ProDAHS has been developed to the same high standards as the MCERTS and EN 14181 compliant AC-DC Emissions Reporting software, but ProDAHS does not include the MCERT-compliant aspects such as QAL3 control charts and auditing. However, the powerful and flexible reporting capabilities make it a valuable software tool for a wide range of emissions and process applications. ProDAHS also meets the requirements of *EN 17255*.

Data Acquisition and Handling Software

ProDAHS provides a complete historical log of emissions data to meet the needs of any local inspections. High quality displays of real-time data can be configured to be as simple or as detailed as needed, featuring multi-windows and resizable graphs and charts. Historical data from commissioning onwards is accessible via the trend and reporting facilities.

Unlimited sensor readings can be inputted at 1 second intervals, so ProDAHS can record critical emissions data such as multiple gases, VOC, dust, flow, temperature and pressure from 3rd party instruments. Any instrument with a digital or analogue output signal can be integrated. The operator can select and export data for any time periods in real-time whilst the CEM is operating. Reports can be supplied for local inspectors and the Environment Agency needs in the required formats. User interaction can be as simple as generating regular reports, or advanced users can configure bespoke reports as and when needed. Data can be displayed as raw data, in a number of different measurement units. Dynamic time-weighted average data can be displayed, such as 1min, 30min, 1hr, Daily, Weekly and Monthly averages. Configurable Partial Averaging can be used to alert users of impending breaches giving operators time to make plant adjustments before ELVs are breached.

All data can also be exported in a variety of formats for external examination and processing. This can assist with maximising plant efficiencies and diagnosing potential problems with the plant processes. Reports access data immediately on its creation to provide the most up-to-date measurement and system statuses.



Flexible
Data Reporting
software for
emissions data:

- * Unlimited sensor readings
- Emissions, Ambient Air, Meteorological and Process Data
- * Configurable reports ready for print
- * Real-time graphs and charts.
- * Incineration (Chemical/Clinical/

Municipal)

- * Power
- (Gas/Coal/Oil/Biomass)
- * Cement Works
- * Chemical industry
 * Petrochemical
- * Pharmaceuticals
- * Refining
- *** Gas Turbines**
- ★ Boilers
 (Oil/gas/Wood Fired)

- * Food Processing
- * Mining
- * Foundries
- * Recycling
- * Steel
- * Wastewater Treatment
- * Landfill Gas Treatment



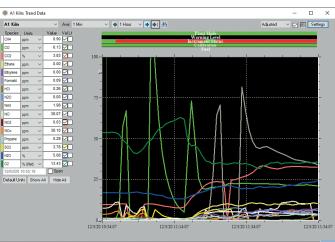


Figure 2: Charts displaying trends for CEM and external sensors, in re-sizeable graphs and windows.



ProDAHS @

Wide range of data sources:

- * Gases
 - (SO₂, NOx, CO, CO₂, HCl, NH₃, HF)
- * VOCs
- * Oxygen
- * Temperature, Pressure
- * Air speed and volumetric air flow
- * Opacity
- * Dust
- * Mercury

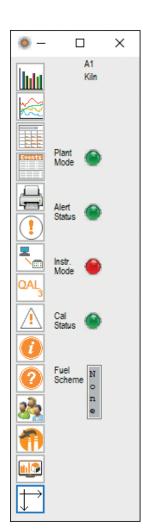


Figure 3: Simple Single Button Control Panel for all software functions.

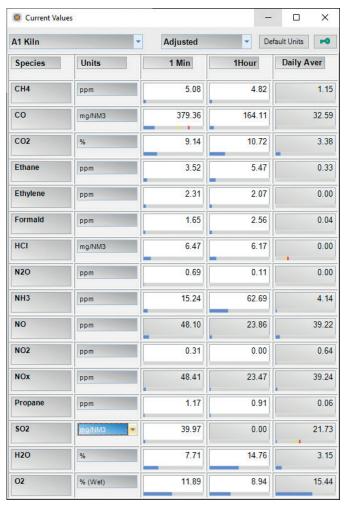


Figure 4: Dynamic time-weighted average tables.

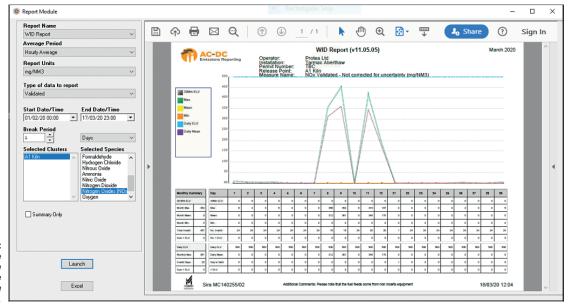
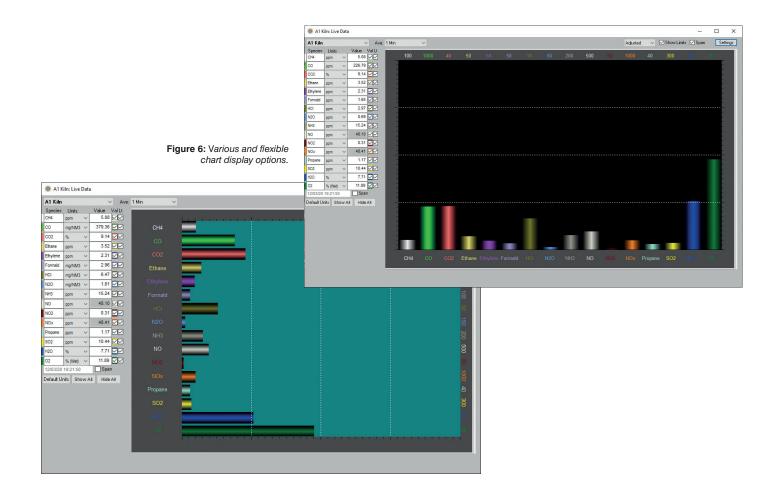


Figure 5: Report Module gives wide and flexible reporting options.



ProDAHS

Features	
Displays and Trends	Selectable Raw, Validated and Adjusted readings Block, Rolling and Partial averages Trend charts Bar charts Data grid displays user defined averaged data in textual and graphical format Frror and Event logs storing all alarms, systems warnings and maintenance
Warning	On screen warnings Email SMS / Text message Plant wide audible sirens Physical warning lights
Reports	User Configurable Averaged Data Report System Configuration Report
Data	Modbus Serial Modbus TCP/IP ProfiBUS ProfiNET FieldBUS, ODBC OPC Analogue signals CSV export and others on request





ProDAHS (III)

Set-up, Support and Benefits

Set-Up Simplicity

As an emissions analyser manufacturer, Protea has a wide experience of instrument set-up and configuring, be it using ProDAHS with Protea analysers or others. If ProDAHS is provided by Protea with any of our in-situ or extractive analysers, the full CEM emissions reporting system is set-up and configured before shipment to site. ProDAHS will be tested fully as part of the CEM Factory Acceptance Test (FAT) and be ready to operated when delivered.

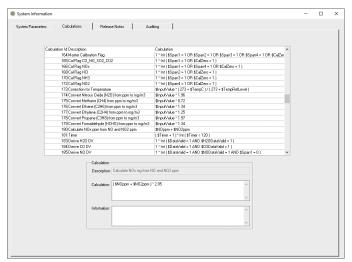


Figure 7: Calculations set-up by Protea during CEM acceptance. Can be added, checked and changed to give unlimited options for data processing and presentation.

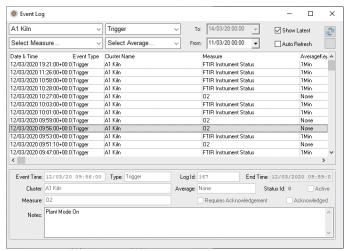


Figure 8: Detailed event log for CEM and Plant status and alarms.

Combined Support

Protea provides support for ProDAHS alongside the CEM analyser hardware, meaning the customer has a single source of support for hardware and reporting software. Protea are best placed to ensure the entire emissions system is fit-for-purpose, being able to make changes to the analyser and the reporting software as and when needed e.g. range changes



Figure 9: Protea offers complete support for CEM and DAHS direct or through our Distributors.

Maintenance contracts for ProDAHS are provided as add-ons to the service contracts for the CEM, so costs can be reduced in terms of separate call out charges.

Facilitating remote access to the ProDAHS is standard practice, and Protea can provide permanent 4G router connection to reporting server to help support the application.

Training

Protea's software is written and supported by our UK team of engineers and emissions professionals, either directly or through our partner network. Training courses can be provided for various levels of customer need, from running simple reports to setting up and configuring full DAHS systems.

Protea Distribution

Protea operate a worldwide distributor and customer support network guaranteeing that our customers receive outstanding support both before and after sale. All our distributors have factory trained service engineers to support our products.

Supplier:



This Datasheet is a guide to the product and Protea Ltd reserve the right to modify the product without notification.