

Representantes / Distribuidores Exclusivos

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PC-ME DUST TOOLS

Particulate Emissions

Analysis and

Reporting Software



- System and sensor remote set up
- Real-time trend views, analysis and reporting
- Historical trend views, analysis and reporting (with instrument data loggers)
- Bag filter performance monitoring (with predictive bag leak failure analysis)
- Legislative compliance reporting
- Process control data analysis





System Description

Ease of access to particulate emissions data is vitally important to Process Operators and Environmental Managers of industrial plant. PC-ME DUST TOOLS PC software modules are used for configuring, downloading, displaying, analysing and reporting particulate emissions data from PCME's range of sensors and control units, and provides remote set up and trend analysis tools for process optimisation and environmental control and reporting. Instantaneous and historical access to emissions data enables efficient reporting for both process and legislative purposes.

The modular format of PC-ME DUST TOOLS provides users with flexibility and control over software functionality. Additional software modules can be added via a simple upgrade path, if for example plant emissions monitoring requirements change, or further reporting and analysis tools are required.

Software modules are grouped in 3 categories, according to the functionality provided:

Configuration Modules Configure sensor and system settings from networked or local PCs.

Real-Time Data Modules Provides networked or local PC access to real-time data from both control units and stand-alone integrated sensors, for process analysis

and abatement plant performance monitoring.

Historical Data Modules Download from PCME's data logging control units to enable historical

emissions overview, graphing, reporting and archiving of data on networked or local PCs.

Data Viewer module providing clear graphical analysis o emission trends and events

Configuration Modules

PCME sensor and control unit set up and configuration on networked or local PCs connected via RS232, RS485 and Ethernet (supports multiple adaptors).

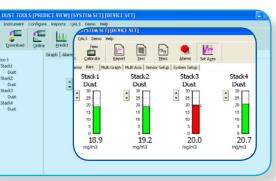
Device Set

The Device Set software module is used to configure settings in the new range of PCME stand-alone sensor devices (sensors with integrated user setup and display). This is of advantage to plant operators preferring the convenience of a PC interface when configuring sensors, and additionally allows backup and restore of complete sensor configuration files, for ease of maintenance or changes in set up due to process variation.

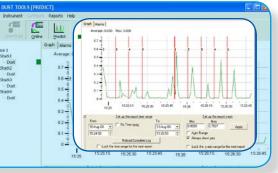
System Set

The System Set software module allows full configuration of the more advanced PCME systems with separate control units. In addition to the configuration backup and restore functionality, System Set allows convenient access to control unit settings especially for multiple channel networked systems that are often distributed across a large area of plant.

Real-Time Data Modules



Online module, bar graph view



Predict module, sequential pulse cleaning analysis

Monitoring of real-time streamed data on networked or local PCs connected via RS232, RS485 and Ethernet (supports multiple adaptors).

Online

Access to real-time data from both PCME control units and stand-alone integrated sensor systems is provided by the Online software module. When active, users can observe the level and variation of emissions in real-time via a continuously updated scrolling graphical trace, or alternatively in bar graphs or an alarm overview screen for warning of critical emission events. Online alarms notification on a PC can be minimized to run discreetly in the background, returning to prominence to alert users in the event of triggered alarms.

Predict

For pulse jet cleaned, multi-compartment and multi-row baghouse filters, the Predict software module provides powerful analysis tools to allow the location of failing and faulty bag filter media before gross filter failure occurs. The Predict module compares emission levels corresponding to pulses for individual filter rows and compartments (real-time data only – see Predict View for historical data version). The correlation of peaks (in graphical format) allows identification of which bag row is starting to leak or where rows are not being cleaned, and therefore provides early prediction and location of bagfilter elements requiring maintenance. The Predict module is a powerful tool enabling structured and predictive maintenance of baghouse filter plant, reduced maintenance costs and minimised emission limit excursion events.

Note: The Predict module includes the Online module.

Historical Data Modules

Analysis, reporting and archiving of long-term data downloaded from PCME data logging control units on networked or local PCs connected via RS232, RS485 and Ethernet (supports multiple adaptors).

Data Downloader

All Historical Data software modules require the Data Downloader module, to allow transfer of logged data (emissions data, alarms, and external inputs where applicable) from PCME control units to PCs. Data downloading operations are initiated on-demand by users, for either all logged data or for specified log types and logging periods.

Autodownload

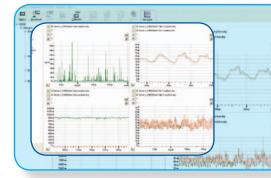
Data downloading between PCME control units and PCs can be automated with the Autodownload software module. The Autodownload module is scheduled to transfer data at user configurable timed intervals, providing automated and secure archiving of emissions data for either unmanned operations or processes where continuity of emissions data is essential for reporting obligations.

Note: Data Downloader module is required for use with Autodownload.

Data Viewer

For powerful instantaneous and long term trend analysis of emissions data, the Data Viewer module is an invaluable tool for process operators and environmental managers. Fast and intuitive zoom and pan features allow users to quickly display the range of data that is needed, and the ability to view multiple graphs and axes simultaneously provides users with clear and convenient means to compare emissions or filter performance from multiple sources.

Note: Data Downloader module is required for use with Data Viewer.



Data Viewer module, multiple parameter graphing

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Data Reporter

The Data Reporter module provides full reporting functionality for generating emissions reports for process analysis, environmental compliance and legislative reporting. Reports can be generated in graphical format for a clear visual overview, detailed text reports with user defined averaging periods, and alarm reports for emission limit, early warning, instrument self check and power alarm event notification history. Data Reporter also allows emissions reporting by mass (e.g. kg/year) for the comparison of predicted emissions against target emissions, which is calculated from a known constant velocity or otherwise logged where a velocity input signal is provided to the PCME control unit. Data Reporter additionally allows the export of logged data in csv format for third party software and spreadsheet compatibility.

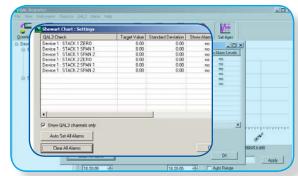
Note: The Data Reporter module includes the standard Data Viewer module. Data Downloader module is required for use with Data Reporter. This module provides functionality equivalent to previous PCME Dust Reporter 2 software.

QAL Reporter

For plant regulated under European Standard EN 14181 such as those under the Waste Incineration Directive (WID) and Large Combustion Plant Directive (LCPD), the QAL Reporter software module is designed to integrate with PCME's QAL1 compliant instruments. QAL Reporter greatly simplifies the reporting of system parameters for ongoing quality assurance as required under QAL3, including the generation of control charts. The software also allows dedicated QAL3 data channel alarming with integrated alarm level calculation to meet EN 14181 definitions, and an Auto Alarm Set feature to define limits using an evaluation reference period of emissions.

Note: The QAL Reporter module includes the standard Data Reporter and Data Viewer modules. Data Downloader module is required for use with QAL Reporter. This module provides functionality equivalent to previous PCME QAL Reporter software.





QAL Reporter module with QAL3 control charts of automatic zero and span data

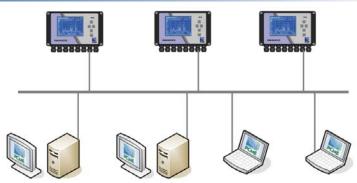
Predict View

Provides full Predict module functionality (see Real-Time Data Modules) for historical logged data, in addition to real-time data.

Note: The Predict View module includes the standard Predict and Online modules. Data Downloader module is required for use with Predict View.

Connectivity

All PCME products have RS232/RS485 (Modbus RTU) connections. PCME Network products with Ethernet functionality enabled allow connection via Ethernet (Modbus TCP) instead of RS232/RS485. Ethernet connectivity increases the range and flexibility of data transfer across factories or offices. Ethernet also enables multiple users across LAN to access multiple control units with no limits on distance.



Ethernet connectivity for plant-wide LAN integration

Specifications

PC Requirements

Minimum

Serial Port

Windows® 2000 or higher
Pentium 90MHz or equivalent
16 MB RAM
10 MB hard disk free space
VGA 256 colour graphics

Recommended

Windows® 2000 or higher Pentium 133MHz or equivalent 32 MB RAM 20 MB hard disk free space 1024 × 768 high colour graphics Serial Port

Note: PC-ME DUST TOOLS software is only compatible with PCME Ltd range of digital network sensors. Please check with PCME Ltd or local distributor for compatibility with existing sensors and systems.

System Capacity

Multiple access to logged data:

Multiple online access: Number of channels: Number of control units: Data recording:

Data security:

Language:

User Licences:

No Limit (using shared network drive)

Requires Ethernet

Up to 64 8

More than 5 years Data is write protected Duplicate of latest data on

control unit, backup directory option English, French, German, Spanish,

Italian

Authorised with run time key

Order Codes

Software Module	Order Code	Modules Included	Modules Required
Device Set	OPT-DEVSET	Device Set	
System Set	OPT-SYSSET	System Set	
Online	OPT-ONLINE	Online	
Predict	OPT-PREDICT	Predict Online	
Data Downloader	OPT-DOWNLOAD	Data Downloader	
Autodownload	OPT-AUTODOWN	Autodownload	Data Downloader
Data Viewer	OPT-VIEWER	Data Viewer	Data Downloader
Data Reporter	OPT-REPORT	Data Reporter Data Viewer	Data Downloader
QAL Reporter	OPT-QALRPT	QAL Reporter Data Reporter Data Viewer	Data Downloader
Predict View	OPT-PREDVIEW	Predict View Data Viewer	Data Downloader



RS232 to USB converter	ACC2-U
RS485 to RS232 converter	ACC2-4
Multi-User Licence (up to 10 users)	SOFL-x (x number of users)

About PCME Ltd

As a progressive environmental Company, PCME specialises in particulate measurement for industrial processes. With a worldwide reputation for reliability, innovation and technological excellence, the Company produces equipment for concentration and mass monitoring for regulatory, environmental and process control requirements. A dedicated team of qualified application and sales engineers is always on hand and should be consulted in the selection and usage of the most suitable equipment for any particulate application.



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