ECOM®

Intelligent analysis!

Manual DAS5

1. Conditions
• Flue gas analyser ecom-D, ecom-EN2, ecom-EN3 or ecom-J2KNpro
• PC with card reader and operation system Windows XP and higher
• USB Driver from ecom
• SD card or MM card from ecom
• Min. card volume 32 MB - max.32 GB (UHC)
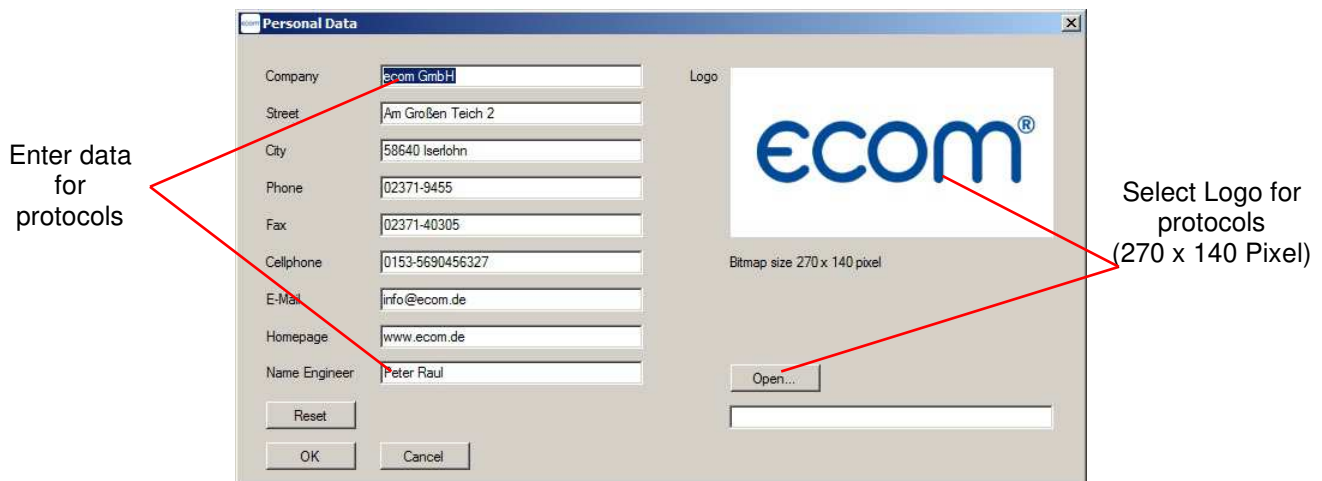• Card formatted on 16 bit FAT or FAT32

2. Install software
• Install software from product USB stick
• Download software from www.ecom.de and install

3. Start software
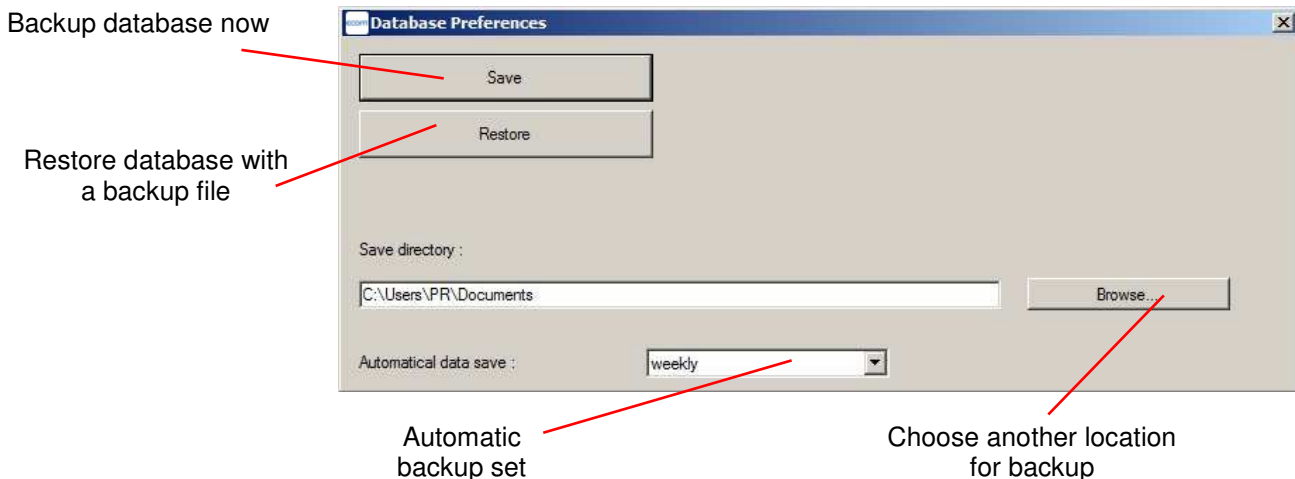• Start by calling up „Start" / „Program >" / „DAS NT 5"

4. Preferences „Personal Data"
• Select „Preferences" / „Personal Data"

Enter data for protocols

Select Logo for protocols (270 x 140 Pixel)

5. Preferences „Database"
• Select „Preferences" / „Database"

Backup database now

Restore database with a backup file

Automatic backup set

Choose another location for backup

6. Preferences „Instrument"
• Select „Preferences" / „Instrument"

Select instrument

Select Baudrate (recommended setting: 38400)

Bluetooth connection (to enable automatic search)

For instruments with temperature „Fahrenheit"

For instruments with CH4 measurement in vol. %

Select interface (previously install USB driver)

Search interface in the device manager (only active with connection to instrument)

Select card reader

7. Preferences „Language"
• Select „Preferences" / „Language"

Set language with mouse

8. Create customer data
• Select tab „Customer" / „Single view"
• Press button „Add Customer" or „+"
• Activate fields with left mouse button and type in informations
Important: The content of the field "customer number" is the assignment of point measurements at the instrument (use unique identification)

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List of all customer
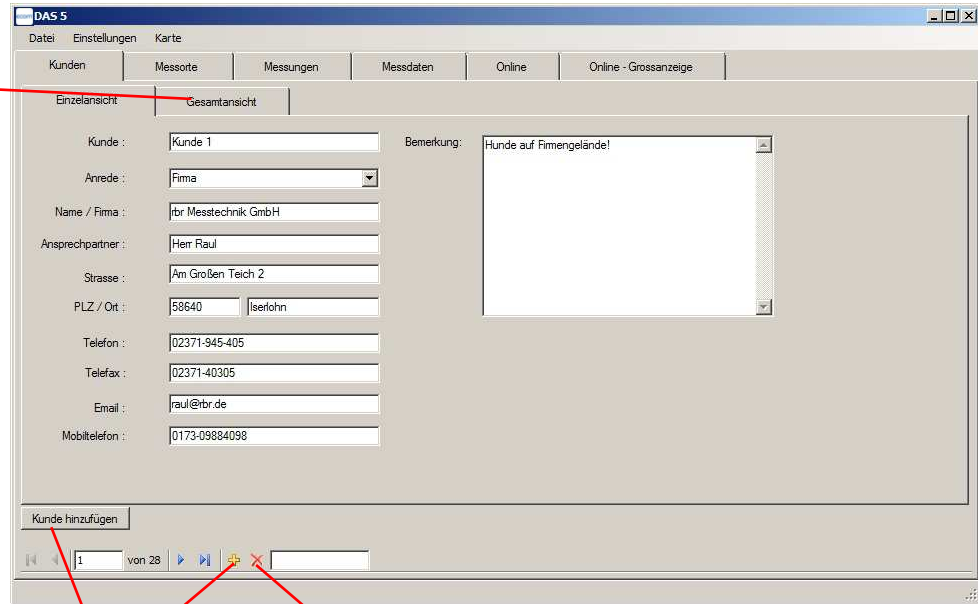
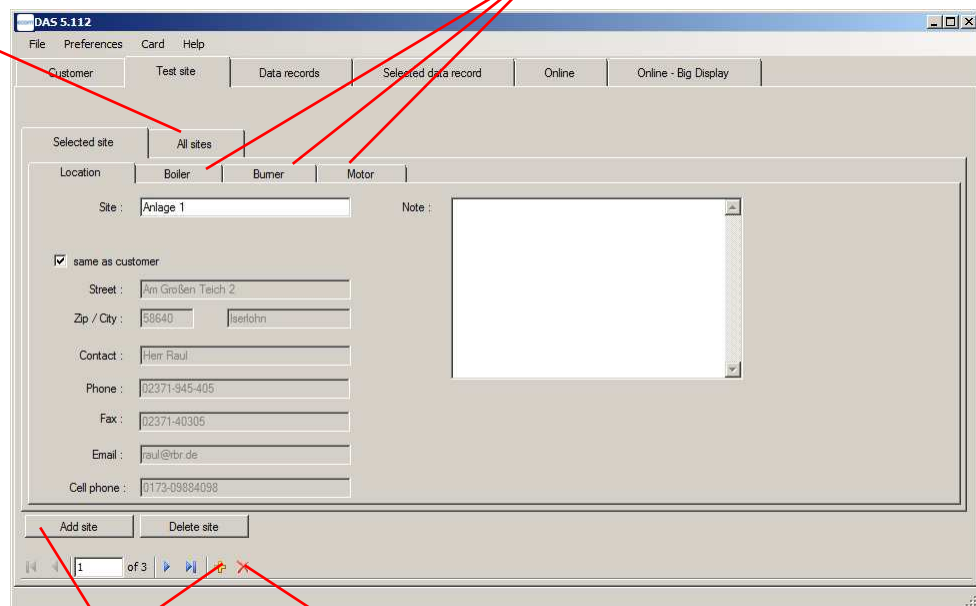Create customer data

Delete customer data

9. Create measuring sites for the customer
• Select tab „Measuring site" / „Single view"
• Press button „Messort hinzufügen" or „+"
• Activate fields with left mouse button and type in informations
**Important: The content of the field "Measuring site" is the assignment of point measurements at the
  instrument (use unique identification)**

List of all measuring
sites of the customer

Information on boilers, burners and
motors can be entered here

Create measuring
sites

Delete measuring
sites

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10. Transfer customer data and measuring sites to MMC
• Select tab „Customer" / „Overview"
• Select customer left mouse button (hold <Strg> key for more than one customer)
• Select „Card" / „Save customer to card"
• Type in the number of point measurements per measuring site and confirm with <OK>
• Type in the note for the measurements and confirm with <OK>
• All required point measurements are prepared on the card

11. Reading point measurements from MMC
After the measurements were done and stored with the instrument, they can be taken for further processing in the software as follows:
• Select „Card" / „Read point measurement from card"
• All measurement results get assigned automatically to each customer / measuring site
   (at the instrument created customer also will be created in the software)

12. Export point measurements
For documentation purposes, point measurements can be exported to a PDF report or an Excel file:
• Select tab „Measurements"
• Select point measurements that belongs together (with the same settings for unit stored on the instrument /
   max. 10 for pdf report) with mouse (press <Ctrl> and hold)
• Press button „Protocol"
• If needed fill in comments
• Select directory
• Enter file name
• Select file type and save file

13. Reading continuous measurements (data logger) from MMC
Measurements recorded by the data logger function of the instrument can be taken for further processing in the software as follows:
• Select tab „Customer" / „Overview"
• Select customer to assign the measurement
• Select tab „Measuring site" / „ Overview "
• Select measurig site to assign the measurement
• Select „Card" / „Read continuous measurement from card"
• Select file on MMC and confirm with „Open"
• The measurement gets assigned to the customer / measuring site

### 14. Export continuous measurements
For documentation purposes, continuous measurements can be exported to a PDF report or an Excel file.
Export to Excel file:
• Select tab „Measurements"
• Select a continuous measurement
• Press button „Protocol"
• If needed fill in comments
• Select directory
• Enter file name
• Select file type „xls" and save file
Export to pdf report:
• Select tab „Measurements"
• Select a continuous measurement
• Select tab „Measurement data" / „Grafical"
• Select values for grafic
• If needed select „3D-View"
• Press button „Protocol Image"
• If needed fill in comments
• Select directory
• Enter file name
• Select file type „pdf" and save file
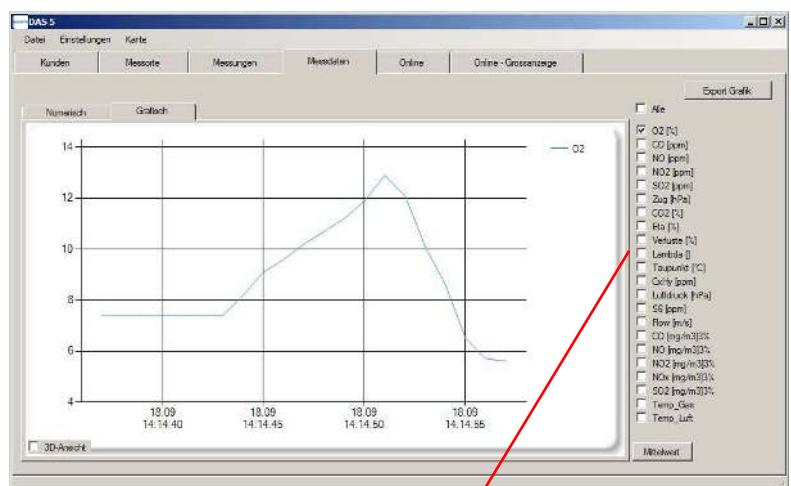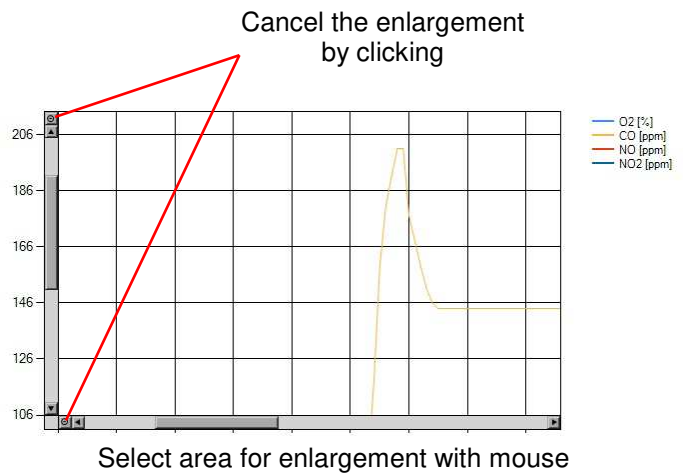

Select values for grafic

15. Online measurements

The measured values of the instrument can be transferred via an interface to the software.
In order to get the readings online, proceed as follows:
• Switch on the instrument and wait until the calibration phase is done
• Select 38400 Baud and Protocol Enhanced at the instrument („Adjustments"/"Internal"/"USB") or
  Select Protocol Enhanced at the instrument („Adjustments"/"Internal"/"Bluetooth") or
  Activate Access Point at the instrument („Adjustments"/"Internal"/"WiFi")
• Connect PC and instrument via Interface or WiFi
• Select tab „Online"
• Press button „Connect" (Connection will come via set interface or the software begins with an automatic search –
  all available interfaces also Bluetooth will be searched)
• After connection is done, press button „Pause" and select values for graph and big display
• Press button „Continue" to start the online measurement

Export Online grafic:
• Select tab „Customer" / „Overview"
• Select customer to assign the measurement
• Select tab „Measuring site" / „ Overview "
• Select measurig site to assign the measurement
• Select tab „Online"
• Press button „Protocol Image"
• If needed fill in comments
• Select directory
• Enter file name
• Select file type „pdf" and save file

Cancel the enlargement
by clicking

Select area for enlargement with mouse

Activating the WiFi connection

Enter the IP address for WiFi

Interrupts online measurement to select values
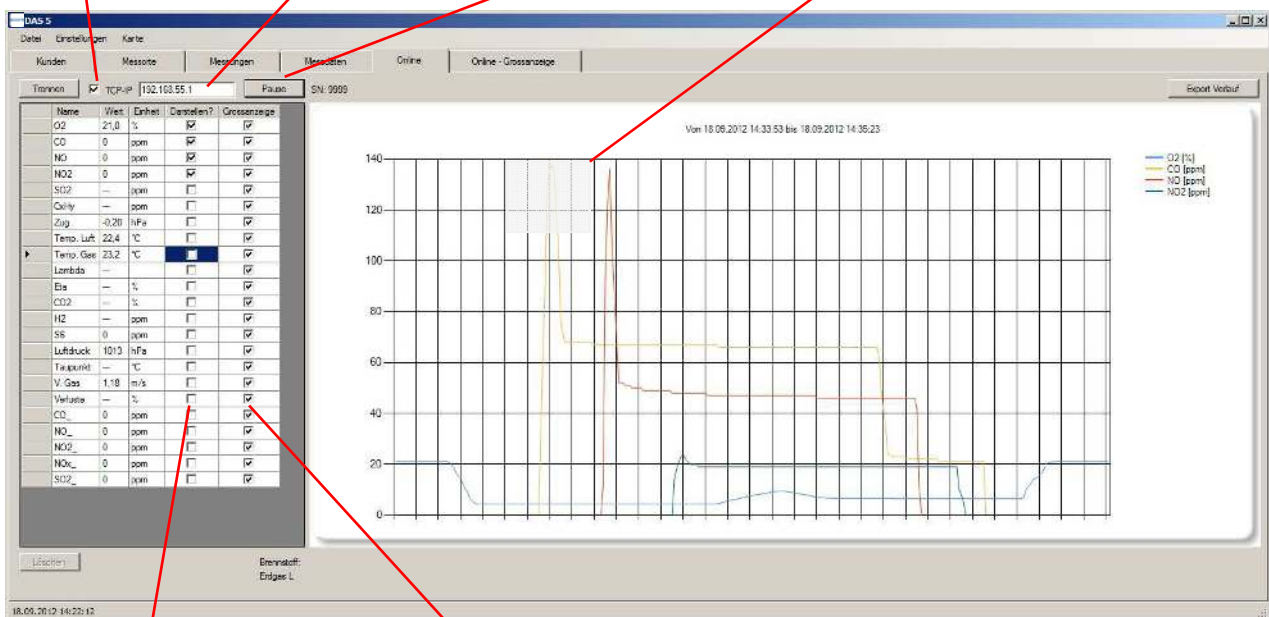
select values for graph

select values for big display

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Online point measurement and Online continuous measurement:
In addition to the opportunities to take the data recording / storage on the instrument, it is possible to logger data (course measurements) and take point measurements with the software:
• Make an online connection to the instrument
• Select tab „Customer" / „Overview"
• Select customer to assign the measurement
• Select tab „Measuring site" / „ Overview "
• Select measurig site to assign the measurement
• Select tab „Measurements"
• Press button „New measurement"
• Select "Point" or "Continuous" measurement
• If needed fill in a note to the measurement
• In case of point measurement press "Add data" – measured values at the present time are saved
• In case of continuous measurement press "Start measurement" –   measured values are collected in the software (to the beat of the recording interval) as long as the measurement is stopped with the button "stop measurement"

fill in a note to the measurement

Select the type of measurement

Adjust recording interval

If needed adjust mesuring time
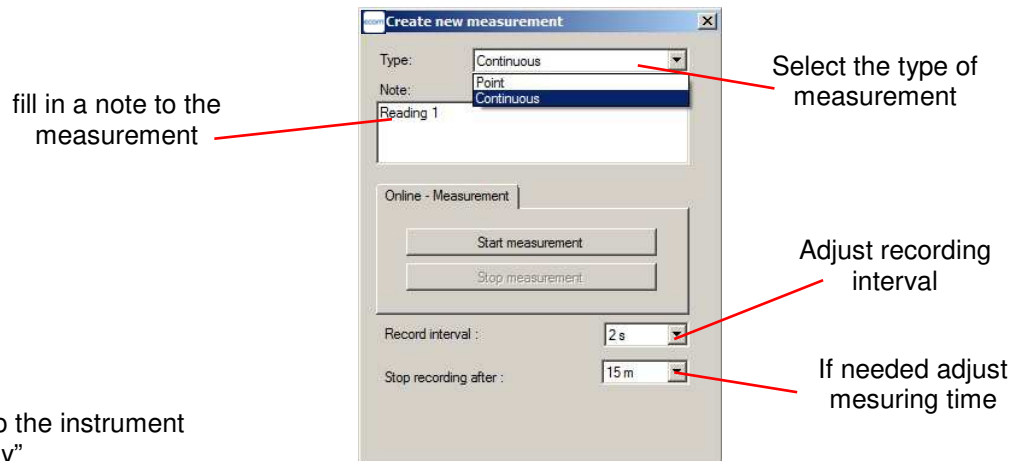
Online big display:
• Make an online connection to the instrument
• Select tab „Online Big Display"
• All values set in tab „Online" are displayed