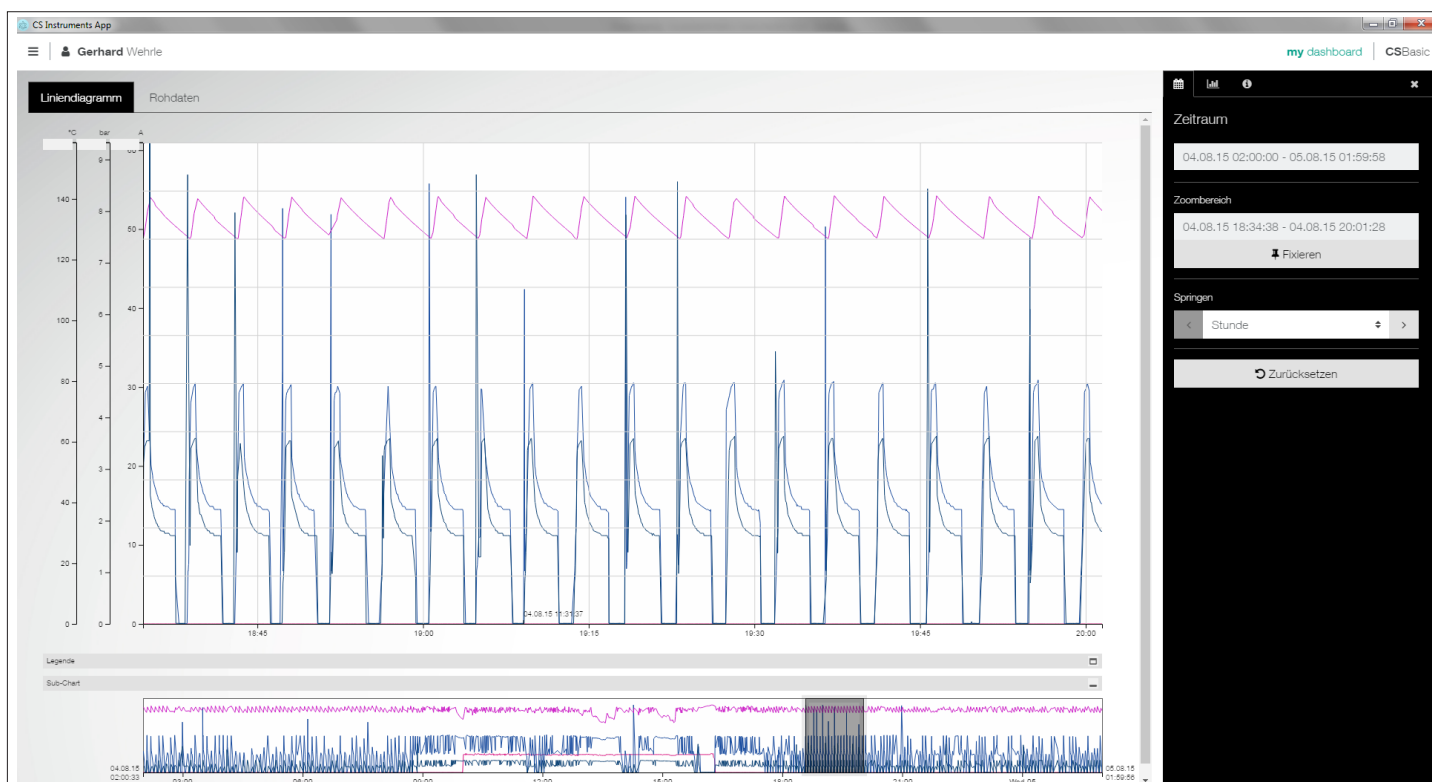# CS Basic

With the CS Basic the paperless recorder DS 500/400 and all mobile devices with data logger can be read out. Depending on the device, data transfer is done either via USB stick or Ethernet connection.

CS Network

The CS Network is a client-server solution. The server software automatically collects the data of all CS paperless recorders and CS sensors embedded in the company's computer network and stores them in a database. The evaluation / analysis of the measured data is carried out via the evaluation software (client) at any number of workstations.

	CS Basic	CS Network
Installation	Local PC installation	Server (virtual machine) Client (Browser-based)
Data storage	Database (local)	Database (Server, virtual machine)
Updates to new releases free of charge	Yes	Yes
Automatic information about upgrades	Yes (only in case of internet access)	Yes
Number of working place licenses	2	Unlimited
Number of measured values	All measured values transmitted by a device. (Max. 1 device at the same time)	Up to 20 / up to 50 / up to 100 / up to 200 measured values
Data transfer	USB Stick (manually) or Ethernet	Ethernet
User administration	No	Yes
E-Mail in case of threshold value exceeding	No	Yes
Storage of the measured data	Logger data have to be read-out manually via CS Basic	CS Network automatically stores the measured data of all connected devices

Common functions:

Graphic evaluation

All measuring curves are indicated in color. All necessary functions are integrated, like e. g. free zoom, selection/deselection of single measuring curves, free selection of periods, scaling of the axis, select colors and so on.
This view can be stored as a PDF file and sent by e-mail. Different data can be combined in one common file.

Table view

All measuring points are listed with exact time interval. The desired measuring channels with the name of the measuring place can be selected via the diagram explorer.

Statistics

All required statistic data are visible at a glance. So the user can see very quickly which minimal or maximal measured values occurred when and for how long.

Consumption report

The software issues a consumption report for all connected flow sensors, it can be selected if it should be daily, weekly or monthly.

Data export to MS-Excel ® or csv

The measured data can be exported to Excel or csv.

Tariffes

The price per consumption unit can be can be stored for each energy form. Depending on the time and the day different tariffs can be stored. The validity of the tariffs can be defined via calendar function in order to grant that price increased resp. decreases can be updated.

Multi lingual

German, english and further languages are included in the scope of delivery.

Alarm history / Alarm logfile

The exceeding of the limit values is documented with the CS Network.

Administration of the measuring sites

Each CS sensor resp. each CS chart recorder can be allocated to a department/hall (resp. cost centers).
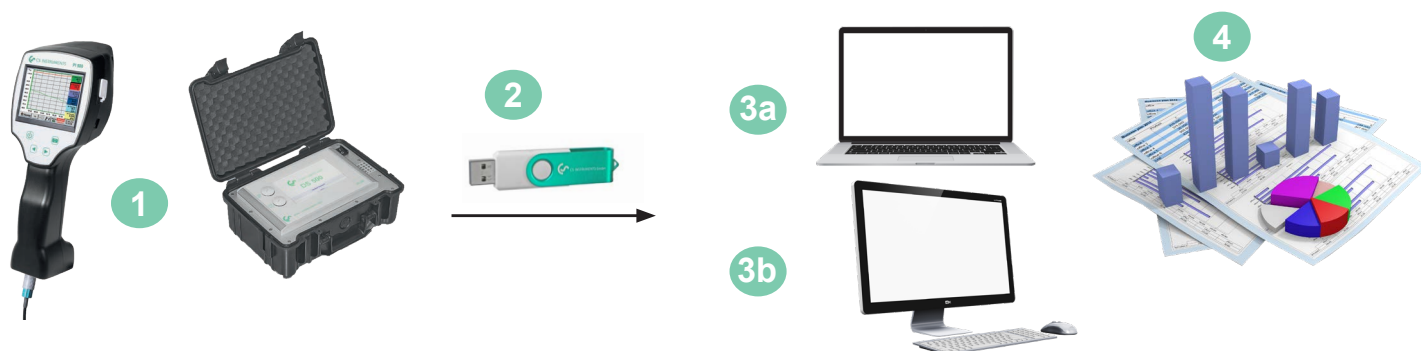
Optional add-on modules:

Module „formular-editor"

By means of the formula editor e. g. the measured values of 2 sensors can be totaled or subtracted from each other.
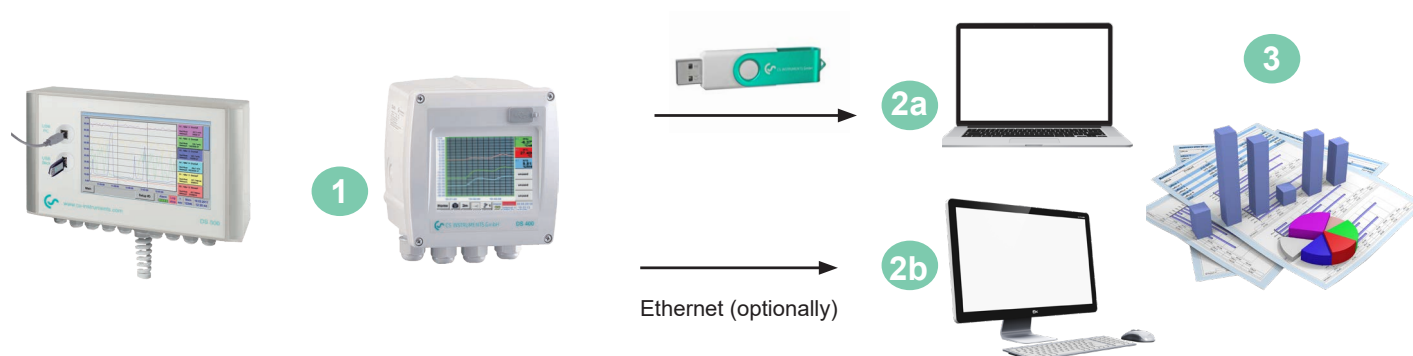
CS Basic

Data evaluation for mobile measurement:

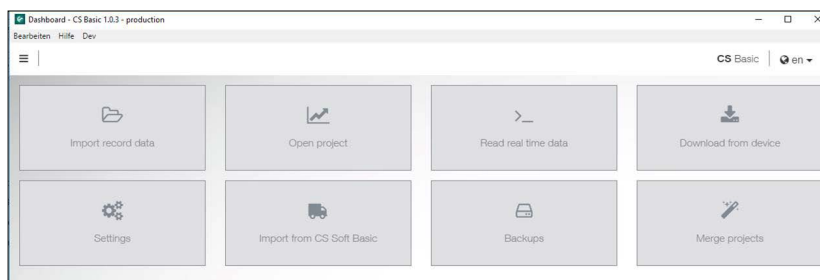|	
1	Mobile measurement at the customer. Measured data are saved in the data logger in the selected measuring cycle
2	Export of the data to the USB stick
3a	Import of the measured data to the laptop directly on-site
3b	Import of the measured data to the computer in the office
4	Evaluation and print out of the measured data

Data evaluation for fix installed chart recorder in the company:

Ethernet (optionally)

1	Chart recorder is fix installed in the company. Measured data will be saved in the data logger in the selected measurement cycle
2a	Transfer the data via USB stick to the computer
2b	Readout of the logger data via the computer network (LAN) by means of CS Basic
3	Evaluation and print out of the measured data

DESCRIPTION	ORDER-NR.
CS Basic - data evaluation in graphic and table form - readout of the measured data via USB or Ethernet. License for 2 working places	0554 8040
Additional license for 1 further working place	Z554 8040
Module „Formula Editor" – by means of the formula editor the measured data and constants can be calculated (addition, subtraction, division, multiplication, root function, exponentiation)	Z554 8010
Upgrade CS Soft Basic (0554 7040) to CS Basic (0554 8040). CAA module is not available any more. Please state old license key when ordering	Z554 8041

CS Basic

Intuitive operation

All important functions can be retrieved via the dashboard.

- Global Settings: Adjust units and change decimal places, store company name and logo
- Import real-time data: Establish Ethernet connection to CS logger or sensor. Trace real-time measured data in graphic and in table form
- Import from CS Soft Basic: Data migration from the previous version of CS Soft Basic
- Data backup: Backup of the projects and the database

Grapic evaluation

All measurement curves are indicated in terms of color. All necessary funktions like free zoom, selection/deselection of single measured curves, free selection of periods, scaling of the axes, selection of colors and so on are
integrated: This view can be stored as pdf file and sent by e-mail. Different data can be merged to one common file.

Table view

All measuring points are listed with the exact time interval. The desired measuring channels with the measuring site name can be selected via the diagram explorer.

Statistics

All necessary statistics data are apparent at a glance. So the user can quickly see which minimum or maximum measured values occurred at which time and for how long.
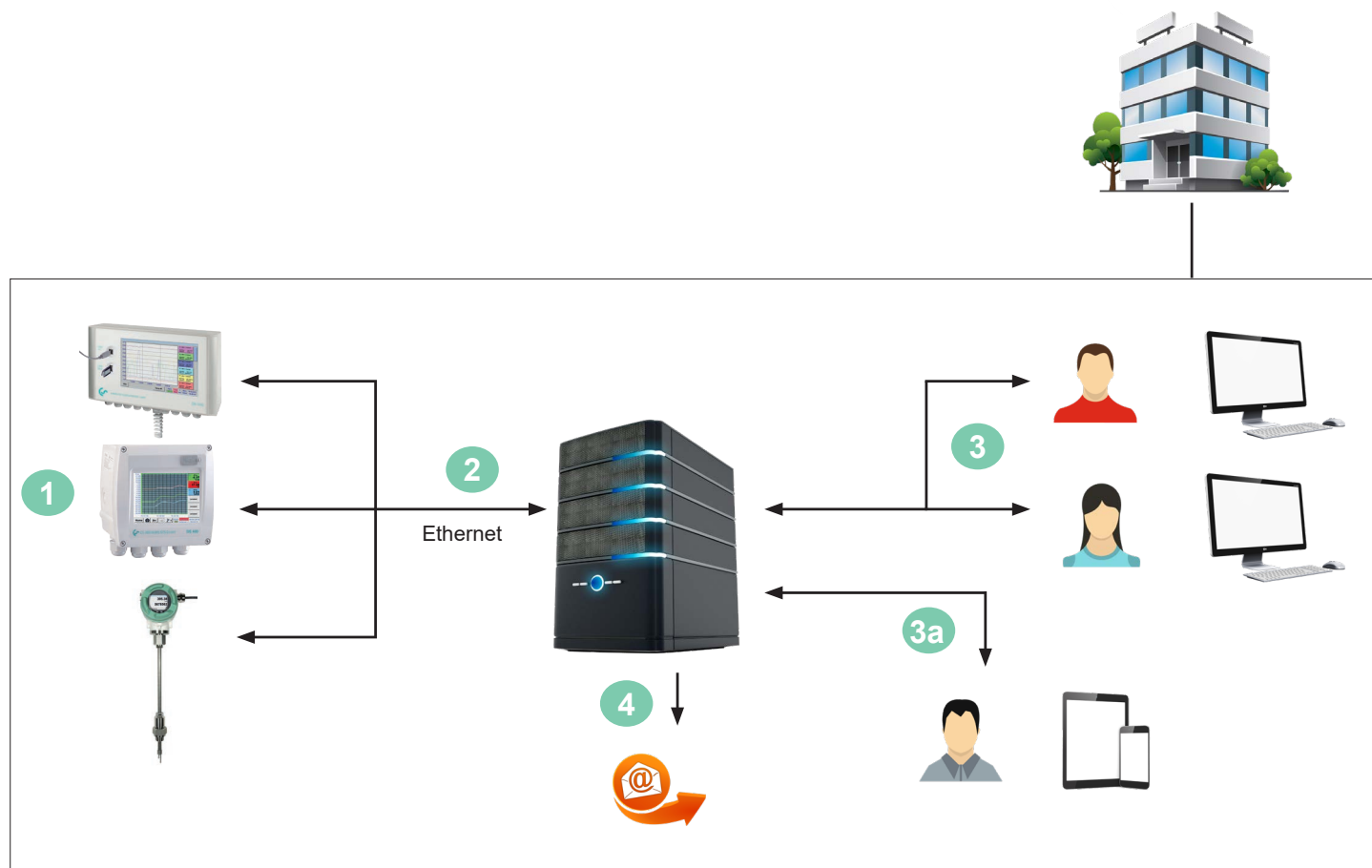

Flow evaluation

The software carries out flow analysis for all connected flow sensors optionally as daily, weekly or monthly report.
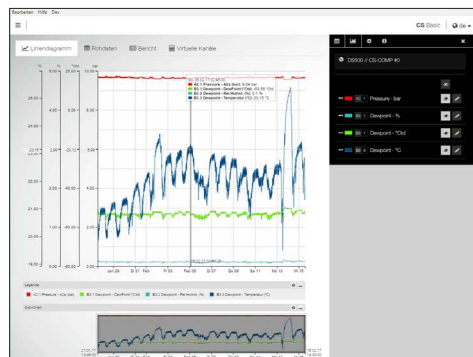
CS Network

Energy monitoring for compressed air and gases in an enterprise

Ethernet

1 Single sensors with Ethernet interface or chart recorders with several sensors measure the compressed air and gas consumption of all departments/cost centers in an enterprise.

2 The CS Network (Server Installation) automatically collects the measured values of all CS chart recorders and CS sensors which are connected to the computer network in an enterprise and stores them in a database.

3 The evaluation/analysis of the measured data is effected via the evaluation software (Client) at an unlimited number of working places.

3a The evaluation software (Client) is browser-based and provides the user quick access to the measured data via tablet or smartphone.

4 In case of an exceeding of the limit values (freely adjustable) there will be an automatic alarm via e-mail

CS Network

Energy monitoring for compressed air and gases in an enterprise

Graphic display with zoom function:

- Selection of the measured data to be indicated
- Easy zoom in and zoom out
- Up to 8 y-axes
- Quick access to daily/weekly/monthly view

View: Current measured values

- Load background image
- Place/fix measured values screen
- Red measured values in case of alarm exceeding
- Quick access to measured value history

		January	February		November	December	Total
A1.2 consumption on hall 1 – A1b (m³)	From (m³)	1.958.827	2.076.325		3.491.661	3.659.617	
	To (m³)	2.076.325	2.215.062		3.659.617	3.775.973	
	Consumption (m³)	117.498	138.737		167.956	116.356	1.817.146
	Costs (€)	2.232,46	2.636,00		3.191,16	2.210,76	34.525,774

DESCRIPTION	ORDER-NR.
CS Network – energy monitoring with client/server solution (Max. 20 measured values of different sensors/devices)	0554 8041
CS Network – energy monitoring with client/server solution (Max. 50 measured values of different sensors/devices)	0554 8042
CS Network – energy monitoring with client/server solution (Max. 100 measured values of different sensors/devices)	0554 8043
CS Network – energy monitoring with client/server solution (Max. 200 measured values of different sensors/devices)	0554 8044
Module «Formula Editor» - with the formula editor, the measured values and constants can be calculated together (addition, subtraction, division, multiplication, root function, exponentiation)	Z554 8010
Module „Cockpit Function" – By means of the Cockpit Function you can issue your personal background layout for the online values	on request
Module „Automatic Consumption Evaluation" is e-mailed to a distribution list at the end of the month	on request
Module „Bar Chart, Pie Chart" for annual comparison	on request