

Quick Guide



DocPad4 e-600 *USB*

Microsoft Surface Go Tablet

**Operation procedure including engine diagnostic,
Software functions & EDCenter**



Content:		Page
System Overview	DocPad / Surface Tablet / System handling	1-2
Quick Operation Procedure		
1. Engine Checks	Check Injectors etc	3
2. Setting up	Sensor / System etc.	3
3. Performance Test	Check TDC settings / Load and Pscav	4
	Check Limits / Adjust TDC	5
	Activate help function / Save data	6
4. After Testing	Engine operation	6
5. Monthly Report	Performance report ME AUX / Fuel Report	7
	Check / Activate / Fill out report	8
6. Engine Diagnostics	View Diagnostical	9
7. Transfer	Transfer PC to PC via Ethernet	10
	Transfer with USB stick / Transfer directly to EDCenter	11
Doc Soft e-3 Basic Functions		
- Entry Screen / User level / View screens / Database export		12
- Start measurement / smoothing pressure curves		13
- TDC Adjustment		14
- Analyzing data / Engine diagnostic		15
- Transfer measurements / to PC / to EDCenter		16
- Propeller curve		17
- Monthly reports / Generating report / transfer reports		18
Engine Diagnostic Center		
- Start / Fleet overview / KPI Views / Diagnostic		19
- Parameter View / Shop test data / Fuel savings		20
Appendix		
- DocPad e-623 Settings / Troubleshooting		21
- EDCenter Communication / Communication (Proxy)		22
- Software Installation / Import database from EDCenter		23

1.1 Front and side view



- 1 Cylinder Pressure
- 2 Auxiliary Sensor
- 3 Cank Angle Sensor (TDC)
- 4 Status LED (connected, led is on)
 - Single-blink: Operating normally
 - On, not blinking: Device connected but not initialized, computer in standby
 - No lit: Device not connected or suspend
- 5 USB cable for transfer and power



1.2 Rear View



- 1 System Lable with Serie Nr
- 2 Configuration Lable

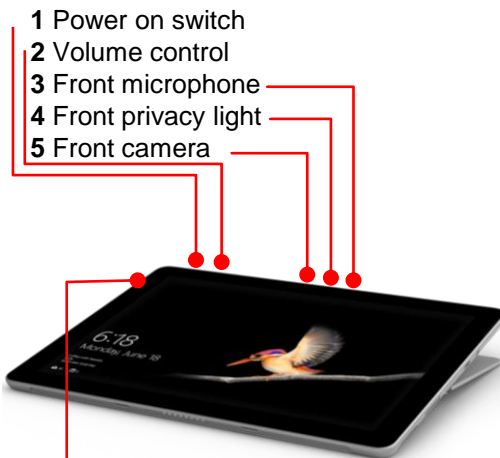
DEVICE CONFIGURATION:

Basic Module 100k1s	100200020
Cylinder: DOC ANALOGS MODULE 4 PIN (U)	100808003
Crank angle: DocPad TDC-POWER MODULE	100807004
DocPad TDC- MODULE 4-PIN	100808001
Aux: DOC ANALOGS MODULE 4 PIN (U)	100808003

Designed and Manufactured by: INTERNATIONAL TECHNOLOGY GMBH

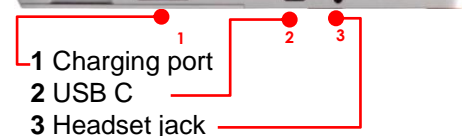
2. Surface Go (rugged case)

2.1 Front View



6 Speaker

2.2 Right View



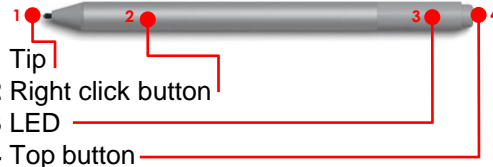
2.3 Rear View



- 1 Back camera
- 2 Back privacy light
- 3 Belt

Add ons

2.4 Pen



2.5 Keyboard

2.6 USB C Hub



System Overview

System Handling

1. System Handling

1.1 Operation

The system is mounted on magnets on the backside of the tablet PC



Please connect the USB cable to the DocPad and the Tablet PC

1.2. Check Battery Capacity of PC

Please make sure Battery capacity of the Tablet PC is fully charged before you start measurement. The sensors will use the power from the Tablet PC.

2. Sensor Handling

The operating temperature of the Online Sensors is limited to max 350°C.

Online Sensor:
Kistler 6613CA/6613CC



Standard Sensors*:
Kistler 7613C/6613CP



*For these sensors it's recommended to use option "low smoothing".

Thomson Adaptor

Sensor Adaptor for indicator cock



2.1 Indicator Cock (measurement point)

On 2-stroke engines

Operating temperature by 80% load at Indicator cock in average 200°- 240°C.

On 4-stroke engines

Operating temperature by 80% load at Indicator cock in average 280°320°C.

However depending on design and location of the indicator cock the temperature can be different.

2.2 Average temperature can exceed!

Due to cylinder problems or wrong settings the average temperature can exceed the max operating temperature (350°C) of the sensor.

In such cases please proceed following:

1. If possible please reduce load to reduce the temperature.
2. If you can not reduce load, your measurement should not exceed 10 minutes!

WARNING
SENSOR TEMPERATURE
MAX 350°C

3. System Start Procedure

3.1 Start DocPad4 e-600

Press power on on Tablet

3.2 Start DocSoft

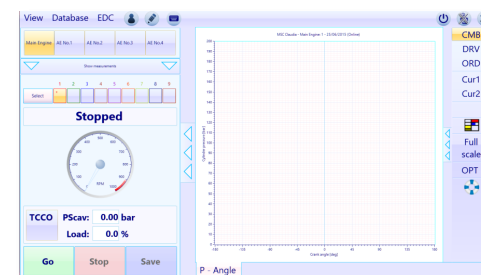
1. Select Icon



2. Software starts
Welcome screen



3. Operation screen



- 3.3 Detailed description find quickly in context sensitive help on each software place



Quick Operation Procedure DocPad e-633

1. ENGINE CHECKS:

1. All injectors to be tested/adjusted to proper opening pressure. Nozzles to be checked for proper spray (not dripping). Renew injectors or nozzles if applicable.
2. Check valve clearances.
3. Check fuel pump timing
4. Lubricate fuel racks and other linkages
5. Check cylinder pressure/ balloon test

2. SETTING UP:

Genrela Remark:

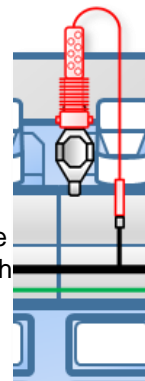
All the wires needed for connecting the DocPad is inside the case.

1. Before testing, notify ECR
2. Check the sensors and make sure the tip is properly screwed in.



3. For easy connection, clean the threads on the indicator cocks before connecting the sensors.
4. Purge all indicator cocks to remove any soot inside.

5. Connect the sensors to the indicator cocks. Don't tighten yet. If the sensor does not fit, try to connect it on another cock. Usually all of them fits without the use of tightening tool.



When the sensor is hot enough it will expand. Then you can tighten the sensors by hand or use the tool if necessary. Too much tightening will result in the sensors being too hard to remove afterwards.

6. Connect the sensor with the extension cable to the DocPad



7. If available, connect the TDC pick up. This will give more accurate and steady readings. The port is located beside the turning gear of each engine.



9. If available connect the Ethernet cable to the engine port to collect automatic engine parameters from the automation system



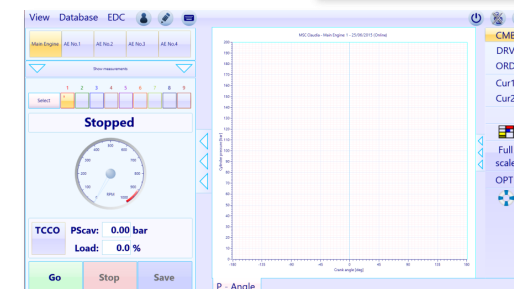
10. When all connections are set-up, turn on the DocPad
11. Open the indicator cocks. Check for leaks.
12. Open the DocSoft on the tablet PC
 - Select Icon



- Software starts with welcome screen



- Operation screen appears



- Detailed description find quickly in context sensitive help on each software place.



Quick Operation Procedure DocPad e-633

3. ENGINE PERFORMANCE TEST

1. Check the position measurement. Click Data sources, DocPad, Settings. If TDC pickup is available, use it. If not, click no position sensor. The DocPad will instead use the sensor for Cyl. 1 as basis.

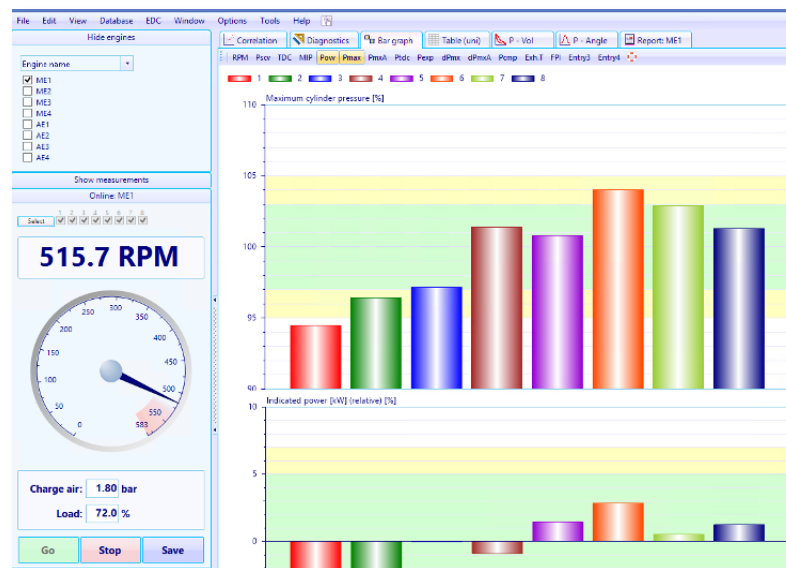
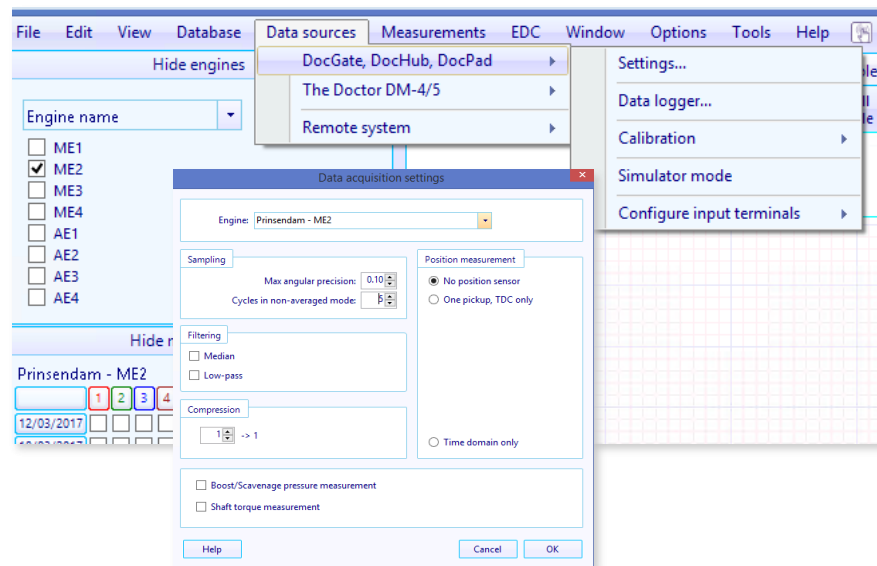
Also in this menu, you can use filtering when required. If there are signal spikes due to vibration or loose connections and it shows on the graph, click the filtering options. Normally the function is not needed.

2. Click the engine to be tested. Select the cylinder/s to be tested.

Remark Important!:

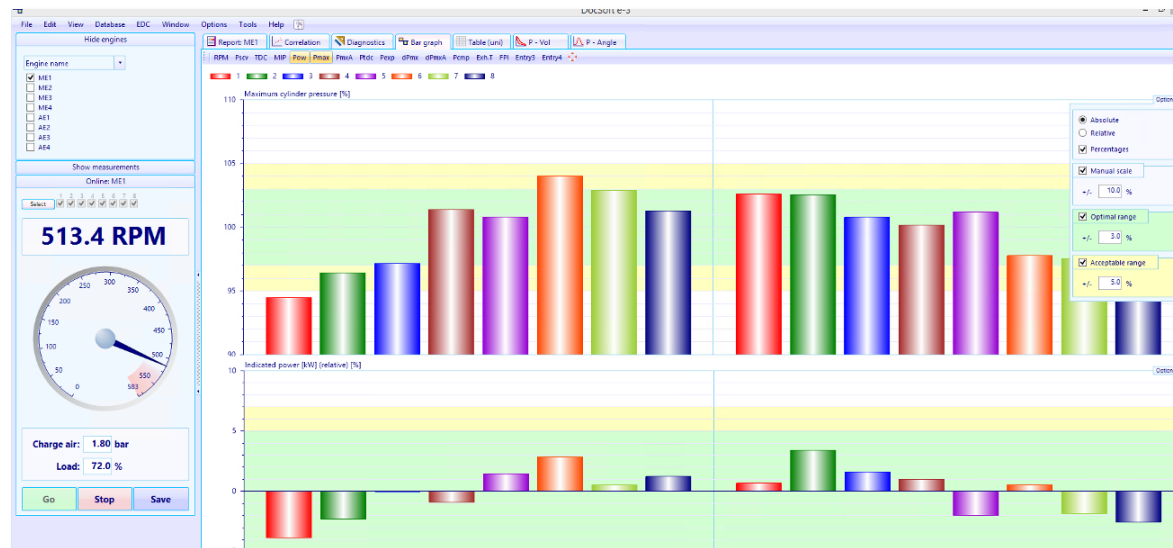
Input **the load and charge air pressure** then click Go.

The program will start and rpm indication will be shown.



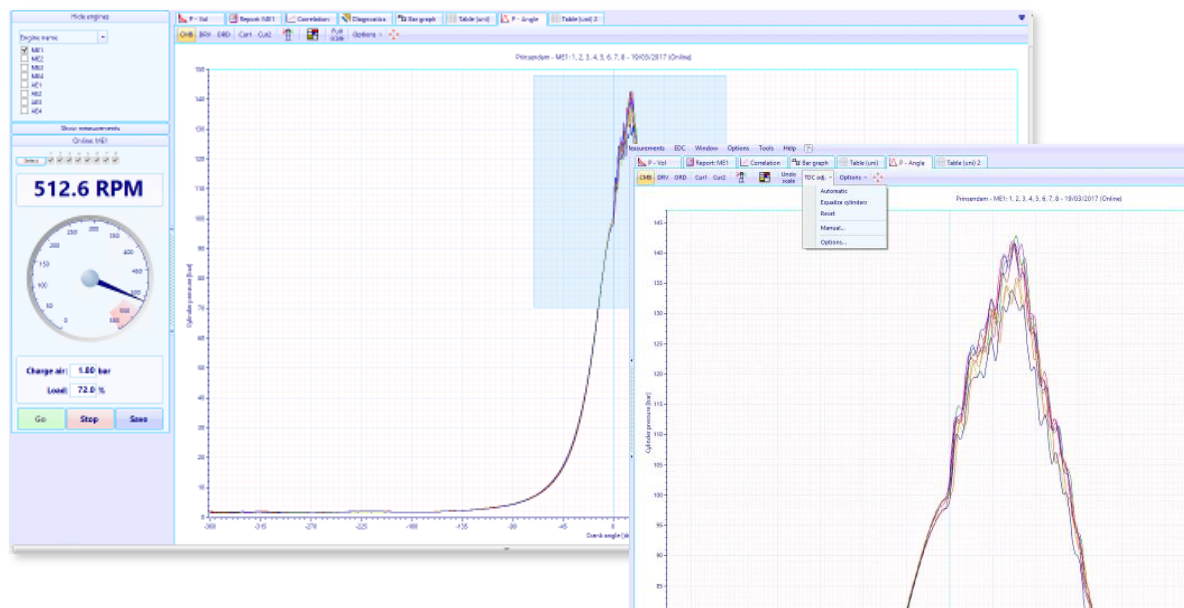
Quick Operation Procedure DocPad e-633

- At the bar graph, the absolute or relative scale can be chosen. The relative data uses percentages based on the average value. The optimal and acceptable limits can be changed.



- Using the P-angle window, you can zoom in by right click and dragging the area you want to see closely.

The TDC indicated is more accurate when the TDC pick up is used. When not available, you can adjust automatically or manually by clicking the TDC adjust button.

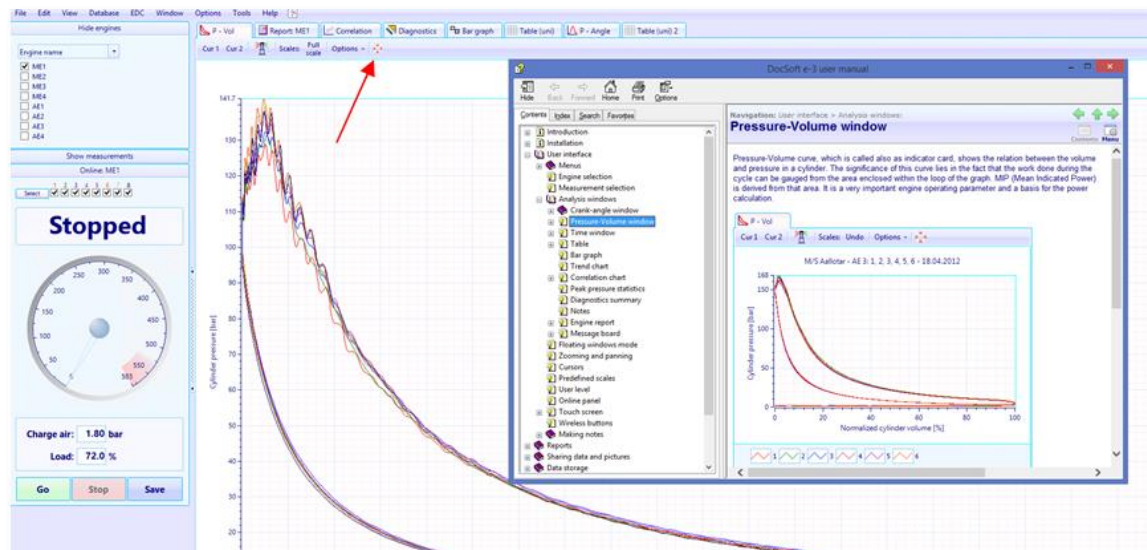


Quick Operation Procedure DocPad e-633

- Clicking the help icon or pressing the help button will activate a window that explains the functions of the current window you are using. For example: Pressure –volume window



- The user manual can always be accessed in the Help button.
- Press save to archive the data.
- To see saved data, click show measurements. The dates of previously taken measurements will appear.



4. AFTER TESTING:

- Close all indicator cocks.
- Loosen the nut of all the sensors until resistance is felt.
- Wait a few minutes to let it cool down then you can remove by use of tool or by opening the valve quickly so the gas pressure will loosen the connection. Do not hammer the locking nut.



Quick Operation Procedure DocPad e-633

5. Fill out monthly performance report:

1. The software contains the engine performance report for your specific engine and a separate fuel consumption report.

With every new measurement both reports need to be fill out. The parameters can be typed in the performance report to provide information for the engine diagnostic (i.e: exhaust temp, HT temp etc.)

- ME 1 type fuel consumption report is available (calc. flow meter).

- For AUX 2 reports are available (calc. flow meter or daily tank).

Examples:

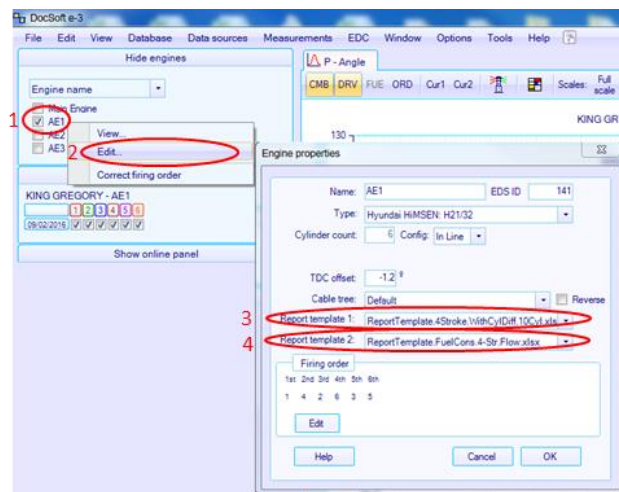
- Main Engine performance report
- Auxiliary Engines performance report
- Fuel consumption report (similar for both engines)

Quick Operation Procedure DocPad e-632

2. Check selected report in software:
 1. right click "engine name"
 2. select "edit"
 3. Original engine performance report
 4. Fuel consumption report

Remark:

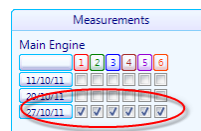
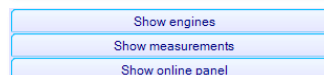
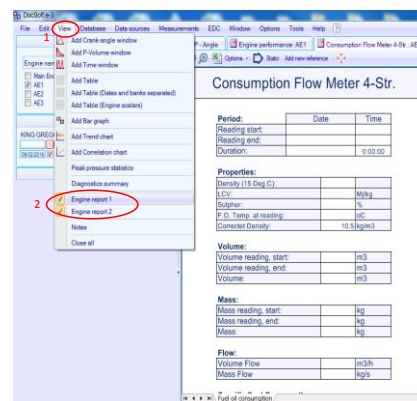
By default flow meter report is selected! If no flow meter on AUX engines are available please select: "ReportTemplate FuelCons 4-Str. Tank.xlsx"



3. Activate report

Once you activate the correct reports for your engines they will always stay please proceed as following:

 1. select "view"
 2. activate report 1 and 2



4. Fill out report

To generate a report please use the non touch screen mode. If you received a workstation upgrade kit for your DocPad tablet we recommend to use the keyboard and mouse for this operation which will be much easier. and proceed as following:

 1. Select engine from the engine selection panel "show engines".
 2. If not already done select only one measurement with all cylinders from panel "show measurement" as the report template handles just one measurement date at the same time.

Quick Operation Procedure DocPad e-632

3. Select: In main menu “view” and “report”

Remark:

- Select Report 1 to fill out main engine report

- Select Report 2 to fill out fuel consumption report

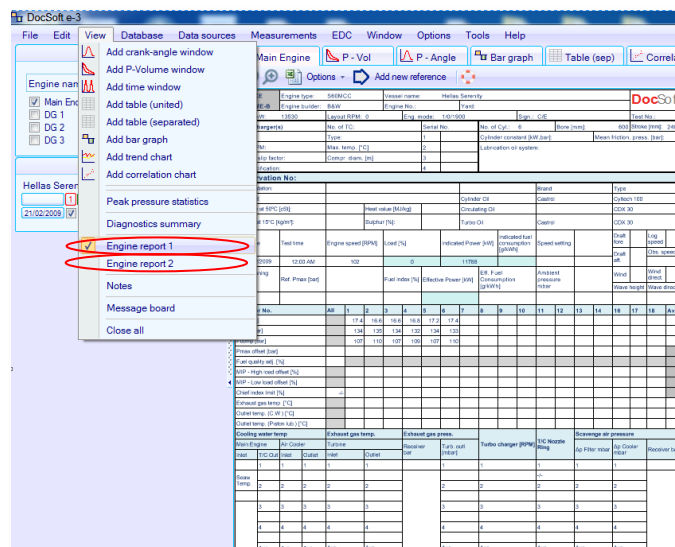
5. The measurements of the DocPad are automatically filled in the report. All other field not measured have to be filled out manually by writing directly in the desired cells.

- To activate the cell for writing click twice.

- The data will be stored if you jump to another cell or by closing the sheet

Remark:

for numbers please use dot “.” instead of comma “,”.



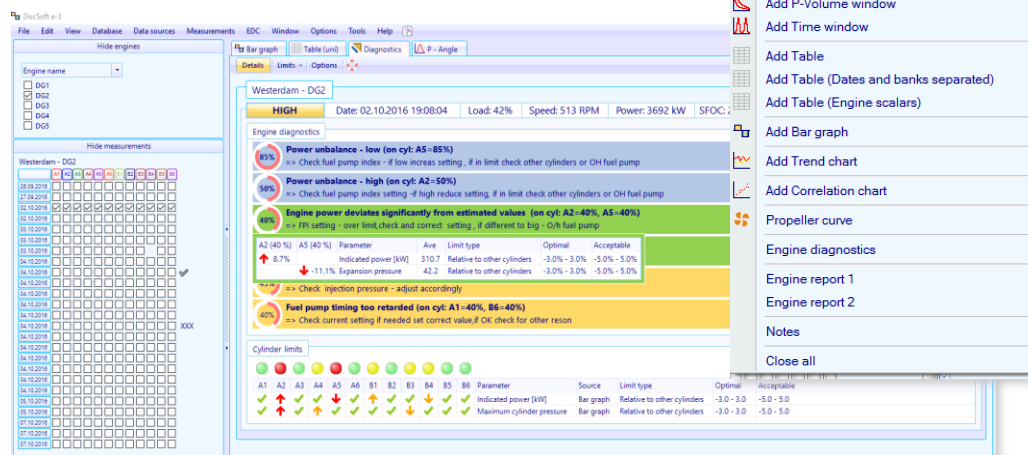
6. Check Engine Diagnostic:

1. After you fill out the report completely, you can now check the engine diagnostic of the DocSoft by selecting “Engine Diagnostics” in “View”.
2. Click on the measurements you like to view for diagnostics. You can select multiple measurements.

- Click on the individual faults and recommendations to see the related parameters to the diagnosis

- Click on “Limits” and “Diagnostic” for complete view

- Missing or good (green) parameters in the report reduces diagnostic accuracy in present.

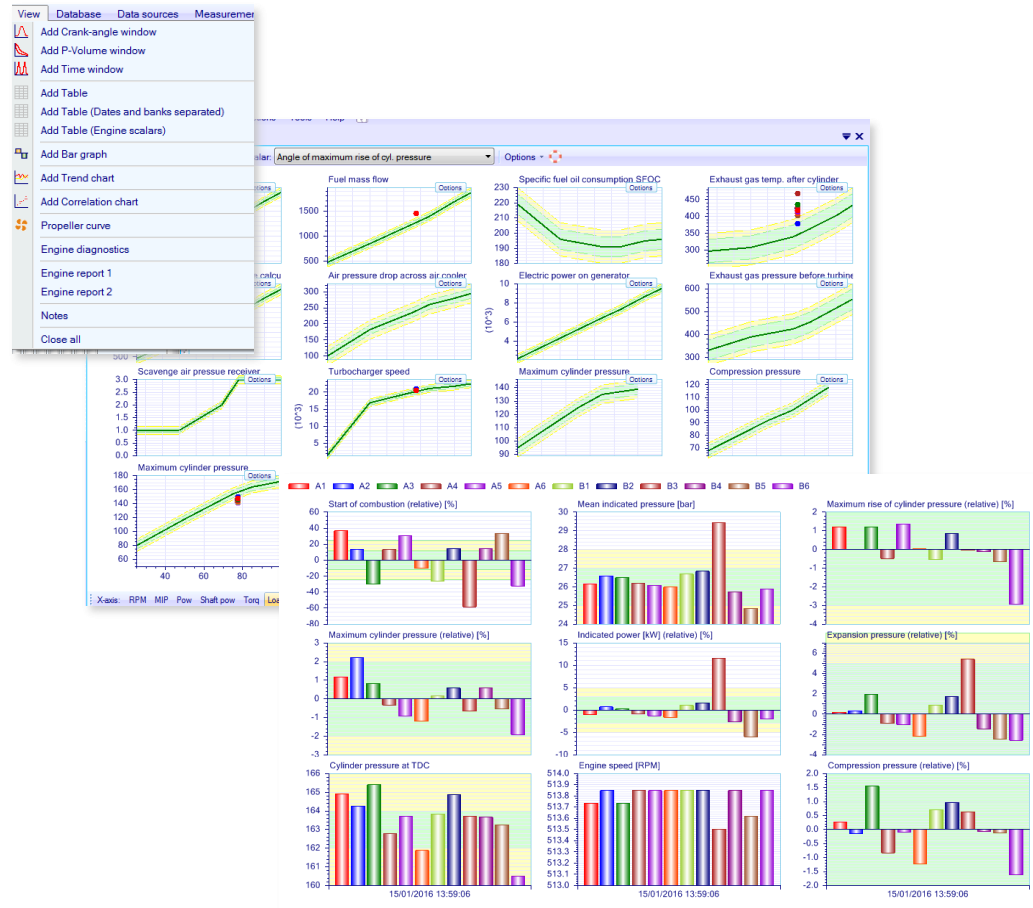


Quick Operation Procedure DocPad e-632

3. To check and compare the actual measurements of the diagnosis, open in "View":
 - Correlation chart (Shop test data)
 - Bar graph
 - etc.

Remark: 1. Check missing parameters in report
2. Check correct TDC adjustment

You are ready to send the report



7. Transfer measurements:

1. Transfer to vessel server (PC to PC transfer)

On tablet

- a. Connect Ethernet cable from the DocPad to the Vessel server
- b. Make sure that DocSoft software is running on the DocPad.

On workstation:

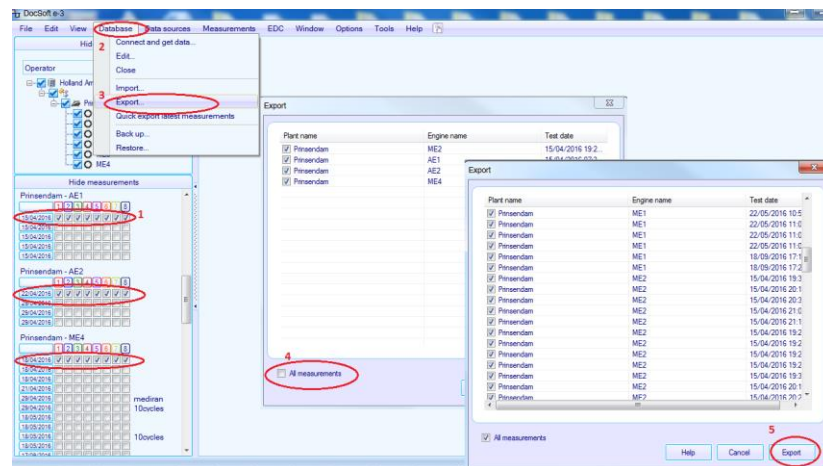
- c. select: "Database"
- d. press: "Import"



Quick Operation Procedure DocPad e-632

2. Transfer to Vessel Server (by USB memory stick)

1. Select Measurements
 - a. You can select single measurement
 - b. Or select multiple measurements by selecting just 1 measurement per engine
2. Select "Database"
3. Click "Export"
4. The export menu appears
 - a. Tingle measurements are selected on screen
 - b. Export all history data select "All measurements"
5. Click "Export"
6. Window folder appears: Select USB stick



3. Transfer directly from DocPad to EDC

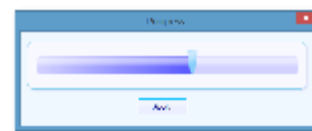
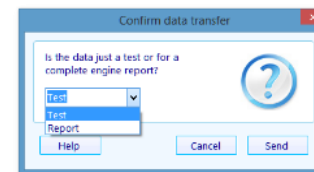
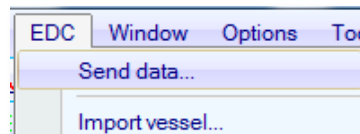
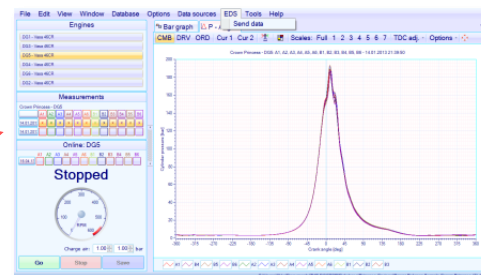
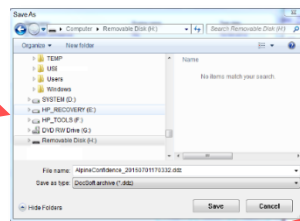
Remark:

This operation requires the communication of the DocPad with the ships network (need to be activated by the IT department).

1. Select the desired data from the measurement panel

Remark: Please validate the data before send to EDC.

 - Fill out Report complete! (EDC show what you send)
 - TDC adjustment (curves aligned in pressure angle window)
2. Click on EDC -> select: Send data
3. Select Report (not Test)
4. Click Send
5. Status bar transferring data to EDCenter appears



1. Entry screen

Main descriptions (in standard user level)

- on screen keyboard
- on screen pen
- change user level
- select views

- engine selection

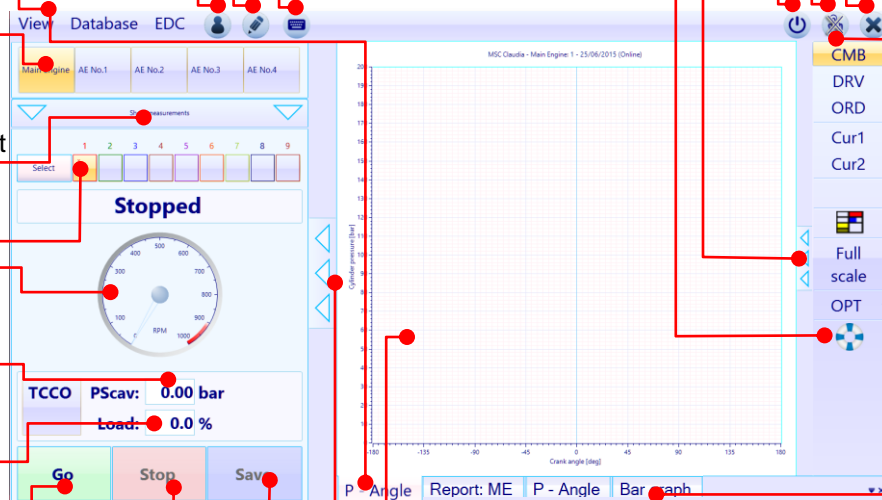
- measurement selection

- cylinder selection

- RPM display
- charge air setting
- load setting

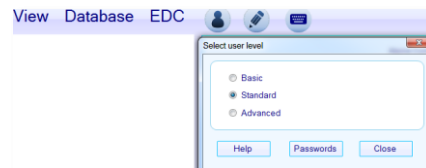
- operation buttons
- enlarge display
- measurement display

- close DocSoft
- touch screen off
- power off tablet
- show cursor position
- context sensitive help



1.3 Change user level

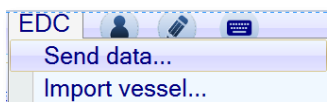
recommendet to measure in standart mode



- Advanced mode enables:
- delete measurements
 - smooth curves
 - change DocPad base settings

1.2 Select EDC

If you select EDC data will be send to EDCenter in cloud

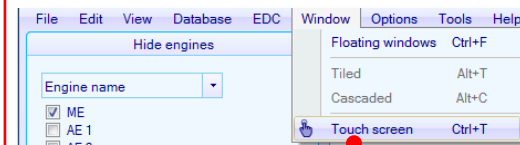


Remark:

If you have no internet connection error message will appear.

1.4 Touch screen mode

If you click icon "touch screen off" screen will change to normal window view



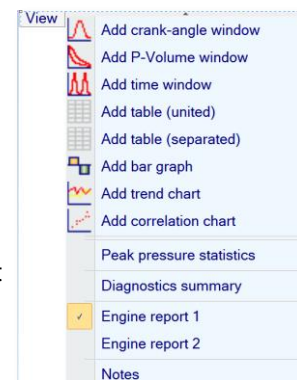
select Touch screen

screen changes in touch screen mode big buttons for easy operation

1.5 Select different views

select views

the views will appear in the measurement display

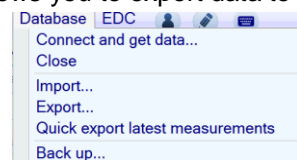


acces views on measurement display

1.6 Database (export data)

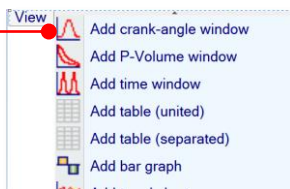
with database allows you to export data to workstation

(please refer to Operation Instruction 3)



2. Start Measurement

2.1 Go to view
select crank
angle window
(preselected)



2.2 Crank angle window with scale appears

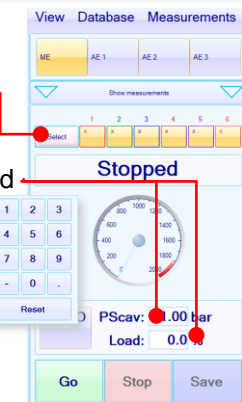


2.3 Select all
Cylinders

2.4 Click in field
charge air / load

2.5 Number block
appears

2.6 Enter charge
air value



Remark Pscav / Load:

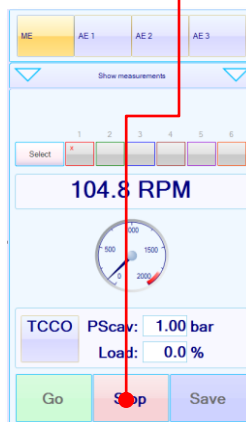
in the situation Pscav / Load is not connected online with a sensor, values have to be manually adjusted when load changes.

Otherwise values could be corrected later on the stored data in the remote Workstation In DocSoft table.

2.7 Online data appear at any time press stop to save data

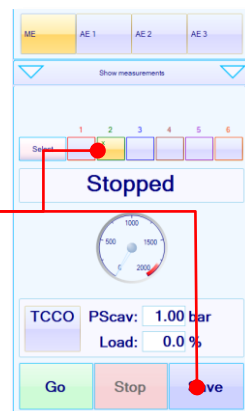
1. Press Go

2. Press Stopp



3. Press Save

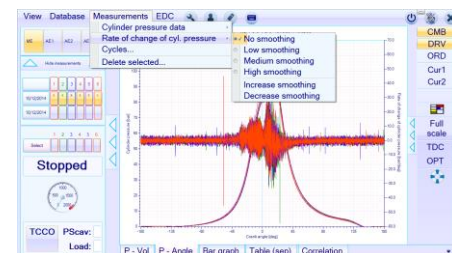
Cursor is
jumping
automatically
to next cylinder



4. Restart the procedure 1-3 for next cylinder.

3. Smoothing measurement curves

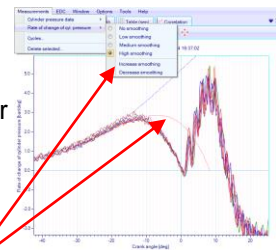
After measurement it can happen that curves apperas with noise.



With DocSoft you can smooth the curves.

1. select: measurement (advanced mode)
2. select: rate of change cyl. Pressure
3. click: High smoothing
4. check the derivative curve on screen

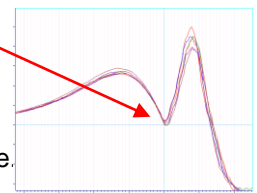
If extrapolation
lines are not
bundled together
please increase
smoothing



4. click on increase smoothing several times until extrapolation lines are bundled.

Remark:

This will stay for future measurements per engine.



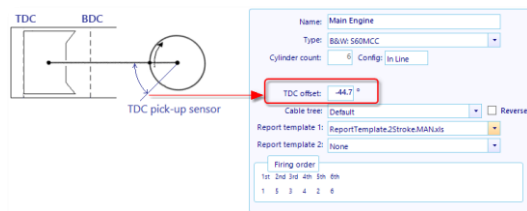
Same operation has to be done on other engines

3. TDC Adjustment (at installation)

The TDC marker's position is sensed and used to synchronise the Top Dead Centre of the cylinders.

As the position of the marker is random it is necessary to adjust it prior to any analysis is being done. This needs to be done only once as long as the position of the marker on the flywheel does not change.

The TDC correction value is relative to TDC of the cylinder #1 and it is entered directly into engine parameters:



After the installation please follow the instructions below:

1. Please collect measurements from each engines (all cylinders)
2. To validate the correct TDC please send the collected data to International Technology:
 1. via EDCenter data transfer
 2. via mail: service@fuchstechnology.com
3. The corrected TDC settings can be imported vessel from the EDCenter described under "Import EDCenter"

NOTE 1: This setting should be done only in the DocPad tablet because the TDC settings can be transferred to the other computers automatically.

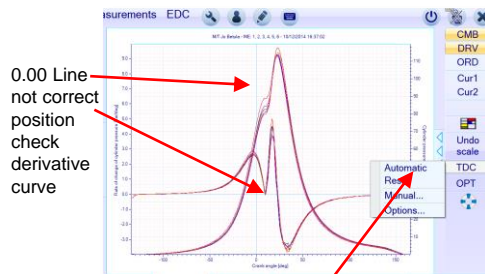
4. TDC Adjustment (automatic / manual)

The manual adjustment is not needed if you follow the 1. TDC adjustment at installation

Analyzing Data can be done online under running engines or on the stored data. Before analyzing data, TDC adjustment is important.

4.1 Adjust TDC

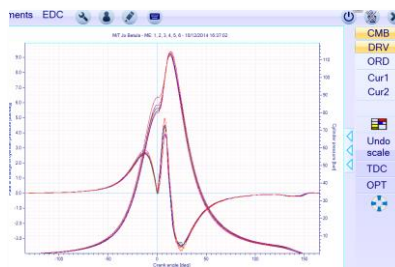
A new measurement will not be TDC adjusted to the 0.00 line in the crank angle window. Therefore an automatic or manual TDC adjustment have to be done.



4.2 Automatic TDC adjustment

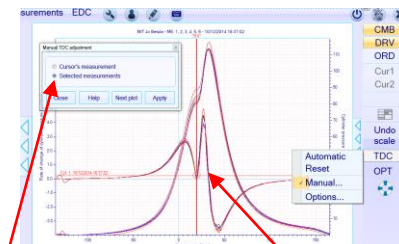
click: TDC then select: Automatic

Curves automatically jump to the correct position as shown in the picture below.



On the screen the TDC 0 line is moving to the correct position.

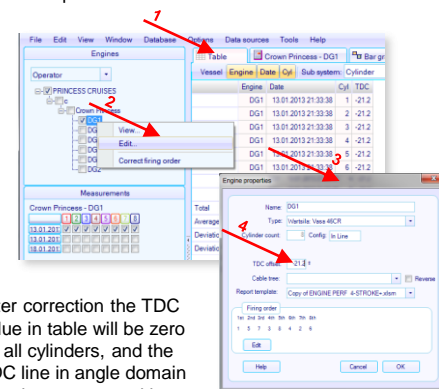
4.3 TDC offset adjustment (manual)



1. Select TDC and then manual
2. Cursor line appears
3. Manual TDC adjustment window appears
4. Move cursor to a desired position. In case of a late injection, the regulation is simple; you can use the pressure curve or the derivative curve, which must pass through zero (Rate of change of pressure – right axis) at TDC.
5. Select measurements to adjust all cylinders

4.4 Save TDC offset adjustment (manual)

- change to window view (press touch view)
1. Open "Table view" and check TDC correction value.
 2. Right click (on mouse) on engine and select edit
 3. Engine properties appears
 4. Enter correction value (example -21.2°) and press ok.



After correction the TDC value in table will be zero on all cylinders, and the TDC line in angle domain is in the correct position.

To analyze the data online different data views can be selected by DocSoft Software

5.5 Shop Test - Sea Trial Chart open for any parameter

A) In crank angle windows click on derivative curve DRV

5.3) Power curve (Banana)

5.6 Engined Report 1 / Engine Report 2

[illegible]

3) Select parameters
(in bar graph, table and trend different parameters can be selected)

5.4) Trend curves over all parameters

Allowing to analyse individual parameters in terms of

C) Select options (Setting Limits)

The option gives the possibilities to set absolute and relative values

5.7 Engine Diagnostic Module

Automatically detects faults and recommendations of all available parameters. Missing parameters reduces fault accuracy in present. Feedet centrally by the powerful case editor of EDCenter. The Diagnostic module runs offline of the EDCenter.

6. Transfer measurements

6.1 Select measurement to view data

- select engine
- select measurement



6.2 PC to PC transfer



You can transfer the measurements from the tablets into vessel servers via a wireless or fixed Ethernet connection.

- Please make sure you have finalized the Operating Instruction 2. (Software Configuration Instructions)
- Please follow the Operating Instruction 3: (Operating Instruction step by step)

6.3 On tablet:

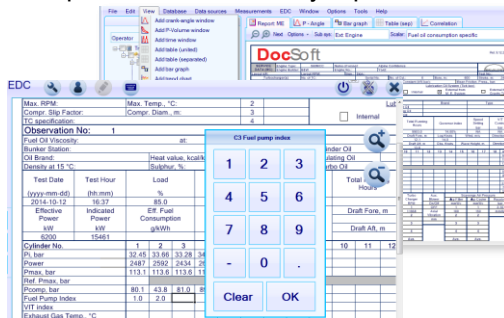
connect Ethernet cable to vessel workstation. Make sure that DocSoft software is running on the DocPad

6.4 On workstation:

- select database
- press Import

6.5 Standard Workflow:

- Select measurement of one engine
- Fill monthly engine reports on tablet
 - select one measurement from panel "show measurement" the report template handles just one measurement date at the same time.
 - Select: In main menu "view" and "report". Fill out monthly report



can easily be done in touch screen mode click on cell number keyboard appears to enter value easily.

- Transfer the measurements to vessel server
- Access measurements from chiefs workstation or other workstations on the vessel to finalize report (if not done before)
- Send the measurements to onshore office

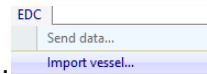
7. Send data to Edcenter

- Select the desired data from the measurement panel

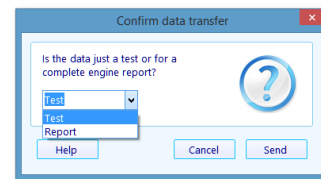
NOTE: Please validate the data before you send it to EDC

- You have filled all external data in the monthly report window.
- TDC adjustment (curves are aligned correctly in pressure angle window)

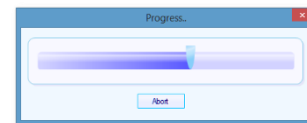
- Click EDS
 - Send data menu item.



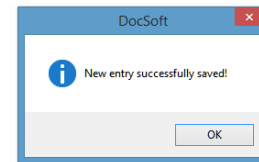
- Choose if the transferred data is just a test or if it is for a complete engine report.



- After that you can see data transfer progress



- Data transfer completed:

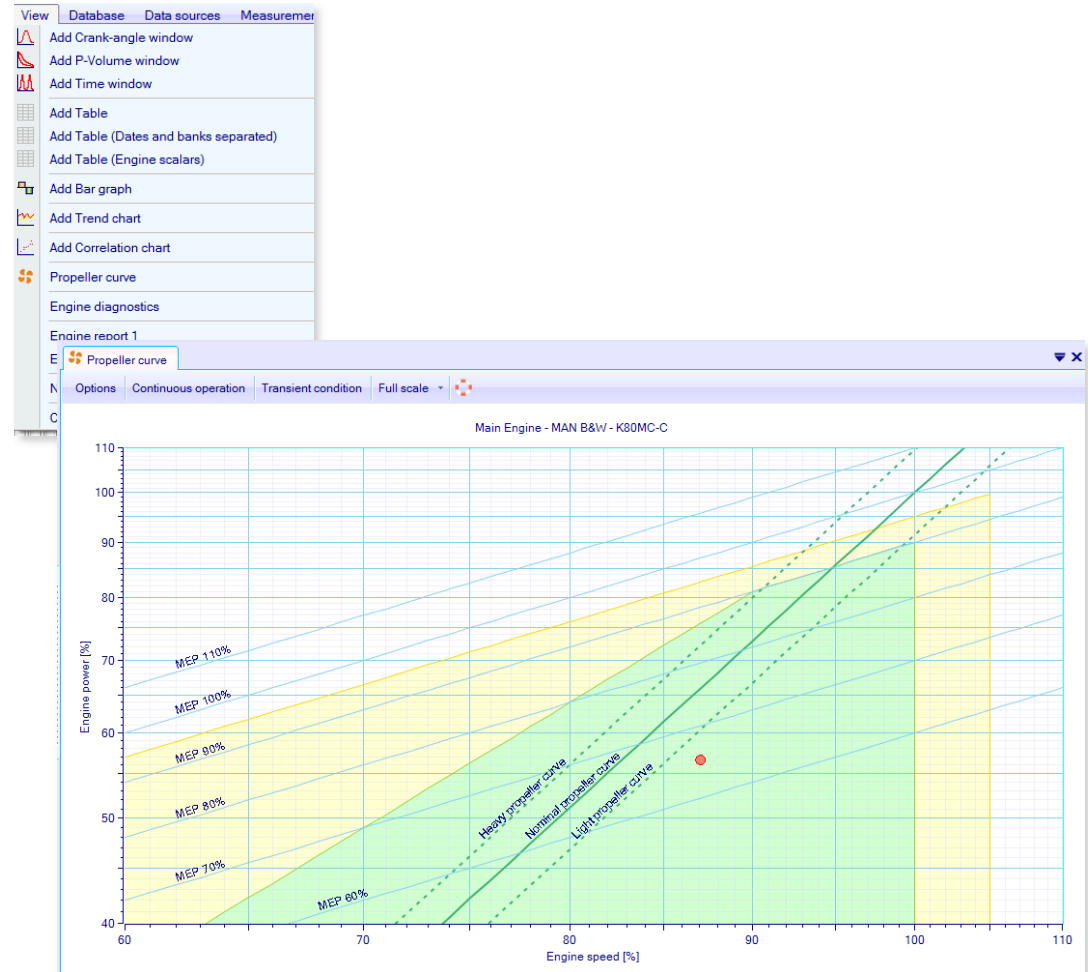


8. Propeller Curve

1. Select Propeller curve in "View"

The propeller curve will show the current load either:

- If Load and KW was entered in the measurements
- If Load and KW was not entered calculated from indicated power



General comment:

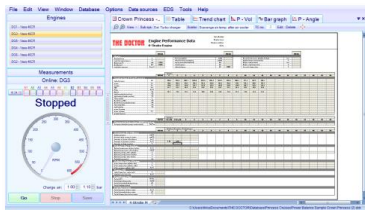
The engine report gives you the possibility to generate your monthly report. At the same time it collects all Data for the Engine Diagnostic System Edsystem.

Based on the installation the engine report can be generated on the Doc (Pad/Hub/DM 10) or on the remote computer.

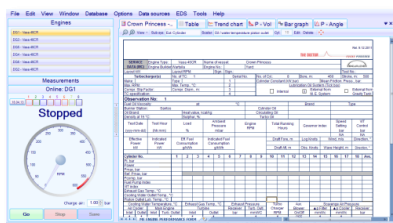
9. Monthly Engine Report Templates

To use the report option (MAN / Wärtsilä or company specific own engine report the required template has to be installed in the Doctor which collects all parameters.

4-stroke template



2-stroke template



9.1. Report data collection

The systems will automatically write the collected data to the engine report.

9.2 To generate a report please proceed as following: (It's recommendet to select just one engine)

1. Select one engine measurement (all cylinders)
2. The measurements are automatically filled in the report.

9.3 All other field not measured by The Doctor have to be filled out manually by writing directly in the desired cells.

- a) We recommend to use a keyboard for this operation which will be much easier.
- b) To activate the cell for writing click twice.
- c) The data will be stored if you jump to another cell or by closing the sheet

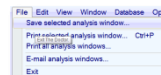
10. Generating & send Engine Reports

There are different ways to generate the engine report.

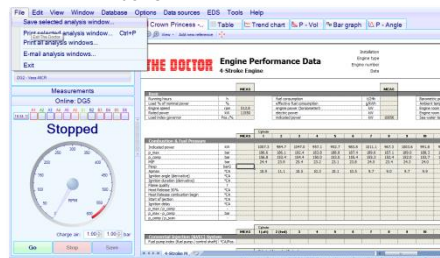
- 1 Save excel copy from existing report
- 2 Send report content to EDSsystem
- 3 Gnerate a predefined Doctor Report

10.1 Excel copy

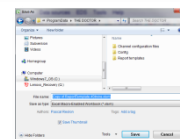
- 1 Click on File



- 2 Select: save selected analysis windows



- 3 Save in windows folder.



10.2 Send report content to EDCenter (see Operation 5.3)

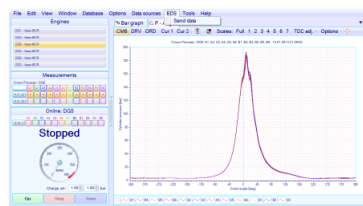
- 1 Select engine measurement

Recommendation:

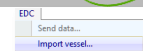
Please validate the data before you send to EDC.

- Report should be filled out complete (EDC will only show what you send)
- TDC adjustment (curves are aligned in pressure angle window)

Select desired measurements. You can send multiple measurements to EDC.



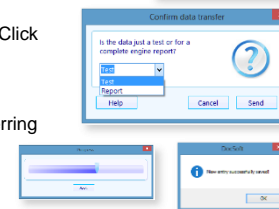
- 2 Click on EDC



- 3 Select Test or Report Click

- 4 Click: Send data

Status bar transferring data to EDCenter appears



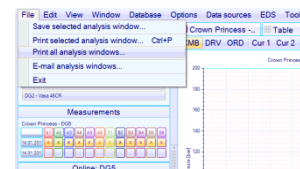
10.3 Gnerate a predefined Doctor Report

Whatever you select from the view tab will appear to generate a predefined Doctor Report



- 1 Click on File

- 2 Click on print all analysis windows



A preview of the predefined Doctor Report appears



General comment:

The EDCenter can be accessed by any browser on your PC or mobile device (preferably Firefox). <https://edc.int-tec.com>

1. Start EDCenter

1.1 First login:

Enter: user name:
password:



1.3 Start EDCenter:



2. Company – Overview

The navigation window shows the company and the entire fleet or or power plants. Quickly navigate in this window down to your fleet, vessel and engine.



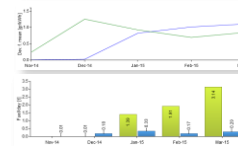
2.1 Company and Division structure

The actual engine condition of the complete fleet can be shown on the dashboard based on KPI's.



In the same view the fuel saving potential in t/day of the fleet is displayed including the history view of main engines and auxiliary engine. Different calculations can be selected such as:

- SFOC
- T/day



2.2 Vessel (Unit) Level

view the unit with the latest measurements



3. Engine Diagnostic

Automatic fault detection and recommendations.

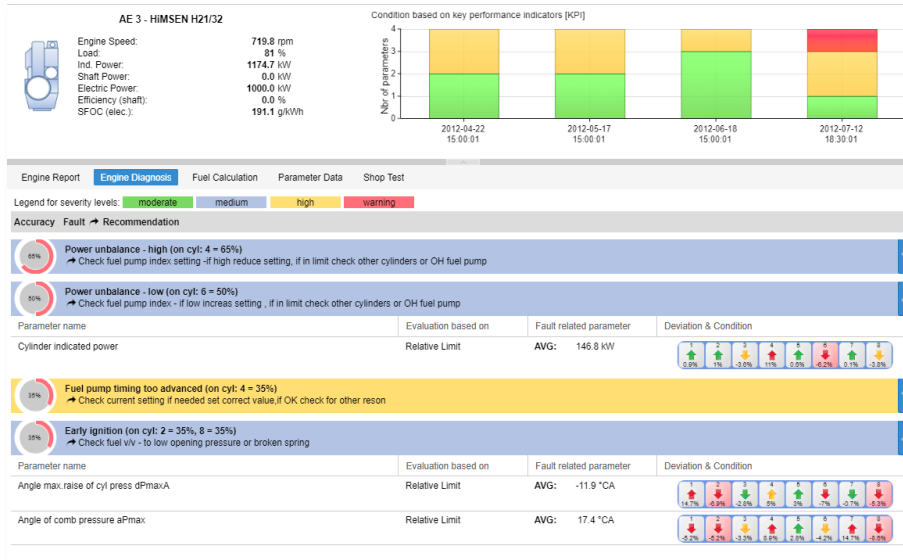
Missing parameters are reducing fault accuracy shown in present.

The powerful engine case editor allows to build up engine specific new fault cases with recommendations

EDC will permanently updated with new cases which can easily be downloaded to DocSoft on board to run the diagnostic offline of EDCenter.

2.3 Vessel Engine KPI trend overview in trend

different KPI parameters can be selected



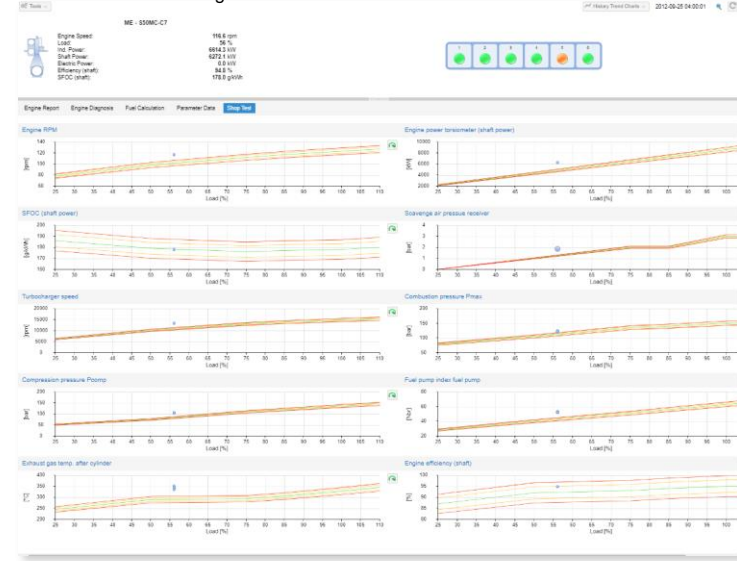
4. Engine overall report

The engine report presents all parameters in traffic lights



5. Shop test and seatrial data

EDC is flexible to integrate new characteristic curves



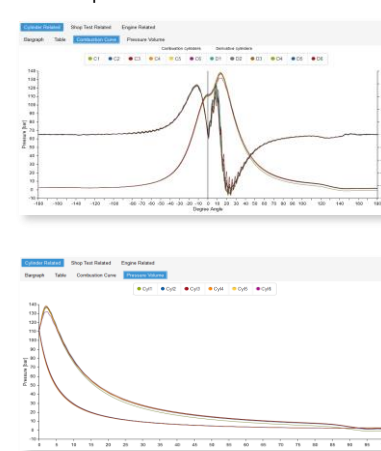
6. Parameter Data

Cylinder related

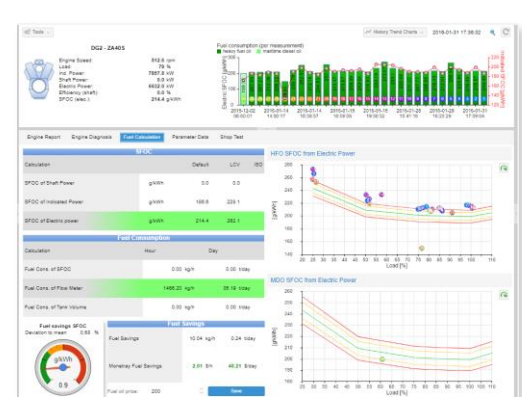
A) Trend curve and bar graph (zoom in function)



B) Combustion and Power curves incl. seperation and zoom function



7. Fuel consumption and savings (ISO corrected) compared to shop test SFOC on HFO and MDO



Appendix DocPad3 e-633 Settings Troubleshooting

1. RPM / TDC not detected

After starting system RPM is not detected.

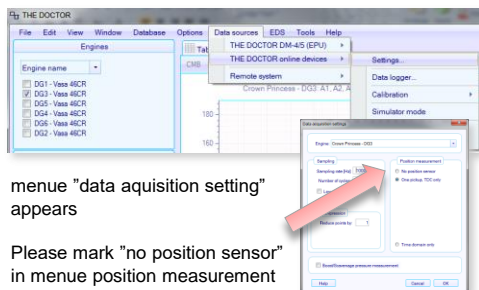


Please check the following:

- Check TDC sensor
- Check cabling connected

1.1 Measurement without TDC sensor

Please go to "data source" / "the doctor online device" / "setting".



menue "data aquisition setting" appears

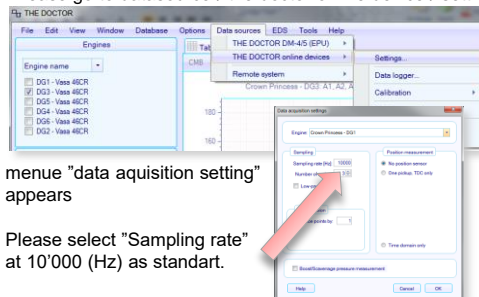
Please mark "no position sensor" in menue position measurement

Press "OK" and start measurement without TDC sensor.

2. System not starting (no screen information)

In configuration with no position sensor.

Please go to datasource / the doctor online device / setting



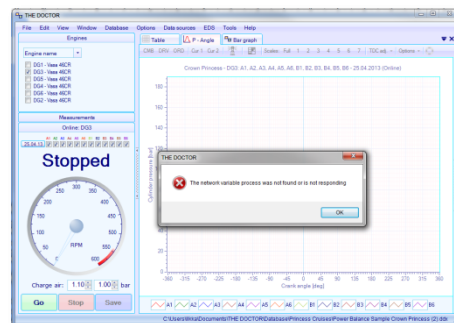
menue "data aquisition setting" appears

Please select "Sampling rate" at 10'000 (Hz) as standart.

Press ok and start measurement with new sampling rate.

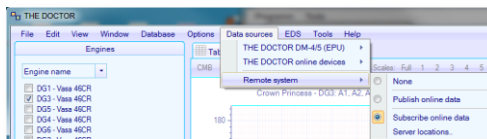
3. System not starting (with error message)

The following screen appears after starting:



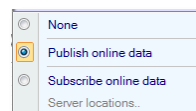
Problem: system setting is wrong not publishing data.

3.1 Please go to "datasource" / "remote system"



3.2 Change "Subscribe online data" or "None" to:

Select "Publish online data"



4. Handling different Sensors

4.1.Sensor configurations

The system is able to collect up to 5 signals on 3 connectors:



Attention:

The **DocPad** can handle diffrent sensors. There are Voltage (U) and Ampere (I) sensors. Your individual system configuration can be found on the back side of the **DocPad e-623**.

Cofiguration requirement:

Cylinder: Kistler 6613CG1:
0101-1501-16 ANAL. MODULE 4 PIN (I)

Kistler 6613CA:
0101-1501-15 ANAL. MODULE 4 PIN (U)

Kistler 6613CP/7613C:
0101-1501-15 ANAL. MODULE 4 PIN (U)
0101-0630-17 MODULE 6613CP/7613C

Cr.Angle: 2 signals (Teeth and TDC)
0101-0630-10 TDC POWER MODULE e-623
0101-0630-11 TDC MODULE 5 PIN e-623

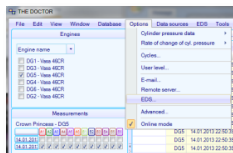
Aux: 2 signals for:
- second cylinder or fuel pressure sensor (only 1 signal)
- shaft power signal (2 signals torque and rpm)
- 2 scavenge air pressure (2 signals)
- Acoustic sensor (only 1 signal)
Part Number:
0101-1501-15 ANAL. MODULE 4 PIN (U)
0101-1501-16 ANAL. MODULE 4 PIN (I)

1. COMMUNICATION (THE DOCTOR and EDS)

1.2 EDS Internet :Please be sure you are connected

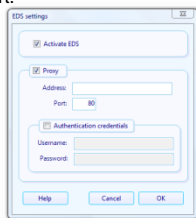
1.3 EDS Internet access (via Proxy Server)
If you have Internet access and the data can not be transferred to EDS your Internet access most probably go through a Proxy Server.

In THE DOCTOR
PC Software
Please select
Options – EDS...
and check EDS is
activated



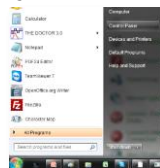
1.4 Proxy Server
Please contact your IT Administration to get the
Proxy Server address and Port.

Please select Proxy
Enter:
- Address and Port
If needed:
select Authentication
- Username
- Password



1.5 Find Proxy Server address in your PC
Click start
- Control panel

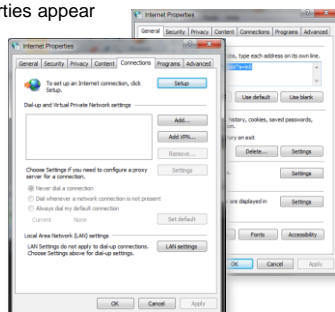
- Open Internet Options



1.6 Internet Properties appear

Click on
Connections

Click on
LAN settings



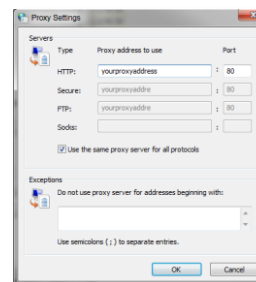
1.7 Check LAN settings
Proxi server
If Proxy server is
activated Address
and Port will be displayed.

- If not, PC is new and
need to be activated (3.5*)
- If Proxy server is activated
Please click on Advanced.



1.8 Proxy setting appears
Please check HTTP
address.

Enter this address to
THE DOCTOR Proxy
settings (see Point 3)



1.9 *Find Proxy Server address in existing network PC.
Please follow 1.5-1.8on existing Network PC to
enter Proxy Address in Doctor Proxy settings

Appendix Software Installation Import Settings EDcenter

1. START INSTALLATION

1.1 Start installation file after download

DocSoft3.Setup_x64.msi
DocSoft3.Setup_x86.msi

1.2 DocSoft Setup screen is showing

Select: Next

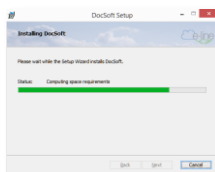


1.3 Accept License Agreement

Select: Next



1.4 Installing DocSoft



1.5 DocSoft is starting

Selandia world first
Diesel Vessel project
of Dr. Rudolf Diesel



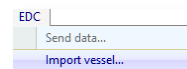
1.6 DocSoft Starting screen



2. IMPORT SETTINGS FROM EDcenter

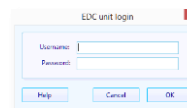
To import configurations of the vessels engine and the DocSystem make shure your computer is connected to the Internet

2.1 Select: Menue EDC



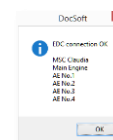
2.2 EDC Login for the unit

Type: Username
Password

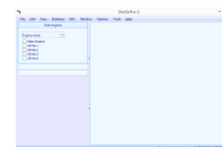


2.3 The configurations will be downloaded from EDcenter. Please check unit configuration

Select: OK

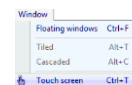


2.4 Engines show in DocSoft

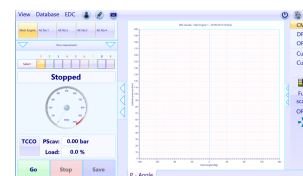


2.5 Select Menue Window

then select: Touch screen



2.6 Select engine



By selecting engines following functions are activated:

- Angle domain
- Combustion curve (CMB)
- fist cylinder selected

Now the DocSoft is ready to collect measurements