Annex acc. to FCC Title 47 CFR Part 15
relating to
DataCollect Traffic Systems
Digital Speed Display

Annex no. 5
User Manual
Functional Description

Title 47 - Telecommunication
Part 15 - Radio Frequency Devices
Subpart C – Intentional Radiators
ANSI C63.4-2014
ANSI C63.10-2013

TÜV NORD Hochfrequenztechnik GmbH & Co. KG
LESKANPARK, Gebäude 10, Waltherstr. 49-51, 51069 Köln, Germany
Tel.: +49 221 8888950

User Manual / Functional Description of the test equipment (EUT)

TÜV NORD Hochfrequenztechnik GmbH & Co. KG
LESKANPARK, Gebäude 10, Waltherstr. 49-51, 51069 Köln, Germany
Tel.: +49 221 8888950

User manual for the DSD Gen5

Edition 9.1_1911

Table of Contents

1 Correct use

The speed measurement and display system DSD (DataCollect Speed Display) is exclusively intended for the measurement and display of speeds in road traffic.

☞ The safety and operating instructions in this manual must be strictly observed. Therefore please read the entire operating instructions before using the product.

This product fulfils the legal, national and European requirements. All company names and product designations are trademarks of the respective holder. All rights reserved.

2 Safety regulations

- In case of damage resulting from the non-observance of these operating instructions, the warranty/guarantee shall become null and void! We shall not assume liability for consequential damage!
- We shall not assume liability for material or personal damage caused by improper handling or non-observance of the safety instructions. In such cases the warranty/guarantee shall become null and void.
- Unauthorised opening, conversion and/or modification of the product is not allowed for safety and approval reasons (CE).
- Operating this product in environments with an explosive atmosphere (zone 0, zone 1, and zone 2 as well as zone 20, zone 21, and zone 22) as specified in the EU directives ATEX equipment and ATEX workplace (94/9/EC and 1999/92/EC) is strictly prohibited by the manufacturer!
- Please handle the product with care. Shocks, impact or falling, even from a low height, may cause damage.
- Do not operate the product if the housing is damaged!
- Only use original spare parts from the manufacturer for operation of the device.
- In all other cases please contact: support@datacollect.com

3 Brief instructions

Step	Explanation	Chapter	Page
To be performed once only*	Check your delivery for completeness	5	6
	Register on www.myTrafficData.com // Consignment of a password on the part of DataCollect	10	16
	Set the clock of your DataCollector (if present) – see the manual of the Datacollector	-	-
1	Creation of the setup file on www.myTrafficData.com	11	18-24
2	Selection of a suitable installation location	6	9
3	Assembly of the mast holder and the DSD	7	10
4	Connect your DSD to the power supply	8	11-12
5	Settings of the DSD by means of DataCollector	12	25-27
	After completion of the setting process, your DSD is now ready for operation!		
6	Reading out data using by means of the DataCollector	13.1	29-30
7	Uploading data from the SD card for report compilation on www.myTrafficdata.com	14.1	31-37

4 Types of DSD

Henceforth you can choose two types of DSD.

1) DSD Gen5 without Textdisplay

2) DSD Gen5 with Textdisplay

With the text display, you can inform the road user on its speeding. These can also be displayed as continuous text.

The texts on the DSD can be individually adapted.

According to the selected type of DSD there are different applcations which will be explained in chapter 9.

5 Scope of supply

The scope of supply varies depending on the power supply.

5.1 DSD Mobile

Item	Quantity	Components
1	1	DSD Speed display system
2	1	DSD User Manual **(via email as a pdf)**
3	1	Mast holder deep
4	1	Mast holder installation instructions
5	1	PowerPack Gen.3
6	1	Charger 2041 for PowerPack Gen.3
7	1	Instructions for commissioning and care PowerPack Gen.3

5.2 DSD Mains

Item	Quantity	Components
1	1	DSD Speed display system
2	1	DSD User Manual **(via email as a pdf)**
3	1	Mast holder deep
4	1	Mast holder installation instructions
5	1	PowerUnit Gen.3 with connecting cables
6	1	Installation instructions PowerUnit Gen.3

5.3 DSD Solar

Item	Quantity	Components
1	1	DSD Speed display system
2	1	DSD User Manual **(via email as a pdf)**
3	2	Mast holder
4	1	Installation manual for mast mount
5	1	SolarPowerUnit Gen.3
6	1	Installation instructions SolarPowerUnit Gen.3
7	1	SolarSystem
8	1	Installation instructions SolarSystem

5.4 Accessories

5.4.1 DataCollector

The DataCollector is used for the parameter settings of the DSD and for downloading data using the SD card.

A corresponding customer access to the website www.myTrafficData.com is required for the generation of setup files.

For information on how to exactly operate the DataCollector, please refer to the instructions enclosed with the DataCollector.

5.4.2 Smartphone

A smartphone (Android OS) is used for the settings and for data download via *Bluetooth*® as well as data transfer via 3G / 4G (depending on the smartphone). It allows on-site monitoring of the traffic data acquisition. Generating setup files requires customer access on the website www.myTrafficData.com.

For exact information on how to operate the DSD via Smartphone please refer to the short guide which is included in the Smartphone App or to this manual.

5.4.3 Tripod

The tripod offers the possibility of installing the DSD in places where there is no stationary mast.

The stand is available in steel or aluminium.

Maximum installation radius: 0.55m

Minimum installation height: 1.65m

Maximum installation height: 2.10m

6 Installation location

Please select a torsion-free, stable mast with a minimum diameter of 60 mm. The location should fulfil the following requirements in order to ensure the best possible measurement.

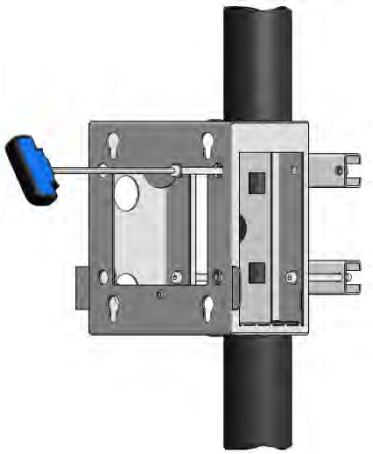
- no bend
- no uphill/downhill gradient
- no moving objects (e.g. bushes) in the “line of vision” of the radar
- no reflecting surfaces (e.g. glass front of buildings) within the field of vision of the radar
- no large metal objects (e.g. crash barriers) within the field of vision of the radar
- free “view” of the lane to be measured

The DSD must be aligned laterally in such a way that it is as parallel as possible to the road surface.

7 Assembly

7.1 Assembly of the mast holder

The assembly instructions for the mast holder can be found in the enclosed installation instructions.



7.2 Assembly of the DSD

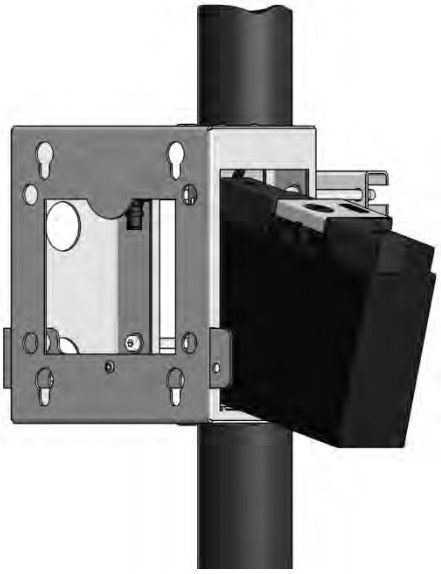
The DSD is hooked into the four holes provided in the mounted mast holder with the four locking bolts on the rear side. Before this, remove the cross bar of the mast holder. When using a PowerPack or a PowerUnit, the energy supply unit can now be inserted into the mast holder after hooking in the DSD, and can be secured using the cross bar and the padlock (not included in the delivery).

8 Commissioning

8.1 Power supply via PowerPack

For information on the charging technology and the maintenance of the PowerPack, please refer to the enclosed instructions for the PowerPack. For connection and for the final insertion of the PowerPack into the side of the deep mast holder, please first remove the cross bar of the mast holder. After removing the rear dust protection cap of the DSD, please connect the angular socket of the PowerPacks to the built-in plug of the DSD by simply plugging in (Push / Pull principle). The angular socket is protected against incorrect plugging in by means of a one-way safety feature. Please observe the white mark!

The period of use of the PowerPack is approx. 10 days, depending on traffic density. After expiration of this period the rechargeable battery must be quickly replaced by a charged one. The discharged battery must now be immediately charged for 24 hours using charger type 2041.



None-observance of this care information leads to increased wear (loss of capacity) of the rechargeable battery or even to an irreparable defect (total failure)!

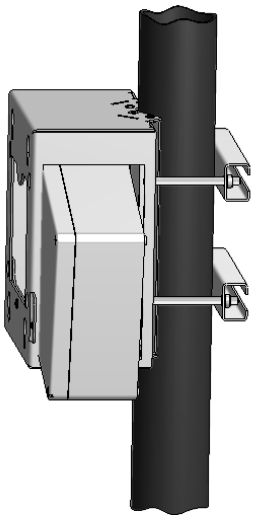
Care instructions:

1) **Do not deeply discharged the battery**
2) **Before stoarge, the battery must be charged**
3) **Even when not in use, the battery must be charged once a month**

8.2 Power supply via PowerUnit

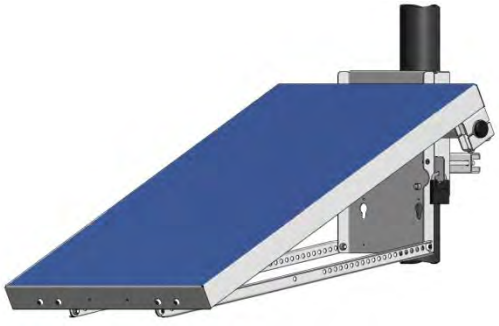
For the installation instructions of the PowerUnit, please refer to the enclosed commissioning instructions.

For connection and for the final insertion of the PowerUnit into the side of the deep mast holder, please first remove the cross bar of the mast holder. After removing the rear dust protection cap of the DSD, please connect the angular socket of the PowerUnit to the built-in plug of the DSD by simply plugging in (Push / Pull principle). The angular socket is protected against incorrect plugging in by means of a one-way safety feature. Please observe the white mark!



8.3 Power supply via SolarSystem + SolarPowerUnit

For the installation instructions for the SolarSystem and the SolarPowerUnit, please refer to the enclosed commissioning instructions.

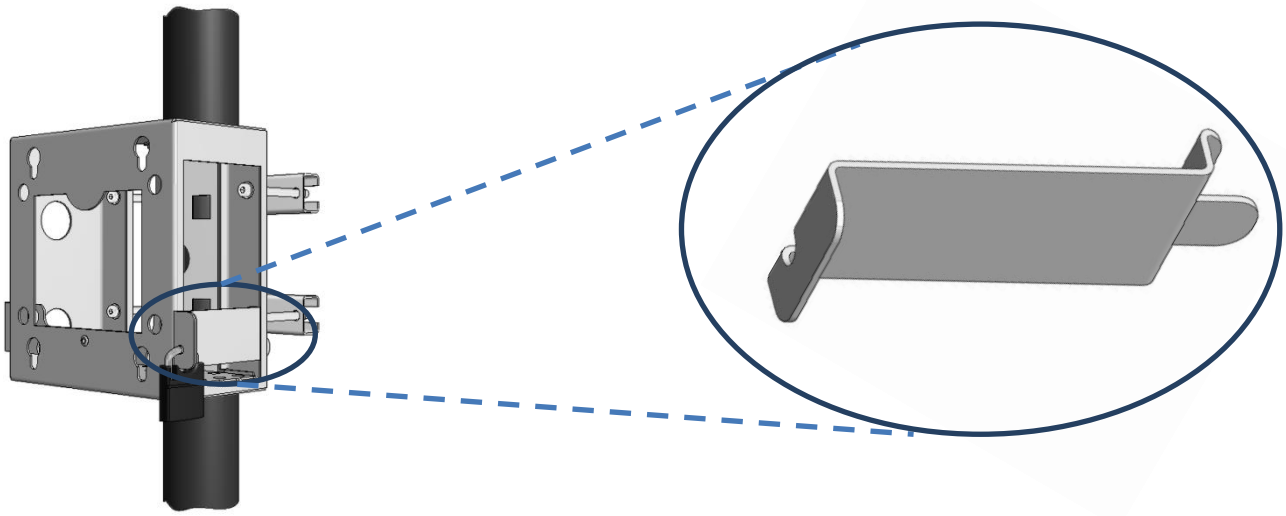


Please observe the distance from the mast holder of the DSD of at least 150cm / max. 300cm. After removing the rear dust protection cap of the DSD, please connect the angular socket of the SolarPowerUnit to the built-in plug of the DSD by simply plugging in (Push / Pull principle). The angular socket is protected against incorrect plugging in by means of a one-way safety feature. Please observe the white mark!

You can hook the SolarPowerUnit into the holes in the adapter plate of the SolarSystem using the locking bolts in the SolarPowerUnit.

8.4 **Securing**

By pushing in the cross bar and attaching the padlock (not included in the delivery), your DSD and the inserted power supply including the connecting cables are protected against unauthorised disassembly.



9 Apps of the DSD

The DSD has various, optionally purchasable apps, which are explained below:

App	Soft / Hardware App	Description	DSD Gen5 without Textdisplay	DSD Gen5 with Textdisplay	Icon
Safety	Soft	Display of a “laughing” or “sad” face in transition with the current driven speed.	✓	✓	
Data recording	Soft	Measured and displayed speed data is stored in the internal memory.	✓	✓	
Exit speed	Soft	In addition to the entry speed (the speed at which the vehicle enters the measuring area) the exit speed is also measured, enabling the safety success to be measured.	✓	✓	
Handie	Soft	Enables the adjustment of the posted speed limit of the DSD without the DataCollector.	✓	✓	
Circular saving	Soft	When the memory is full the oldest details are overwritten. Otherwise, after 57,000 data records, only the speed is displayed	✓	✓	
Anti-Race	Soft	This device can be used to switch the display off or switch it to different modes (e.g. off or permanent light) when the driving speed clearly exceeds the speed limit	✓	✓	
Display PSL	Soft	The set posted speed limit allowed acc. to the StVo (German Road Traffic Regulations) is displayed and not the actually driven speed.	✓	✓	
Timer	Soft	This function enables the adjustment of up to 2 time-dependent posted speed limits and 4 time intervals.	✓	✓	
Daylight saving time	Soft	The conversion from summer time and winter time is automatic.	✓	✓	

Flash upgrade	Soft	A software update of the DSD is possible via Bluetooth® transfer of the DataCollector as well as via GPRS.	✓	✓	
Energy savings	Soft	Activate this app to optimise different setting parameters of the DSD, e.g. brightness (day/night), and achieve an average runtime increase of up to 30%.	✓	✓	
Too Fast	Soft	For this, the text panel “Too fast” is required. The difference between the actually driven speed and the posted speed limit is displayed.	✓	✓	
Covert measurement	Soft	Due to the assembly of the text panel or deactivation of the display during measurement, recording of the driven speed is made possible without influencing the driver by displaying the speed.	✓	✓	
Watch Your Speed	Soft	When activated, this app will indicate to the driver by an additional flashing of the Safety eyes that he is travelling in the red zone (speed limit exceeded).	✓	✓	
Safety only	Soft	The feedback he will receive on his behaviour when this app is active is a "happy" / "sad" smiley face, depending on whether he observes / exceeds the speed limit. No speeds will be indicated.	✓	✓	
Memory+	Hard	The Memory+ app expands the amount of available storage space. This allows you to store up to 1,600,000 entries per DSD instead of the standard 57,000 entries.	✓	✓	
Duo Color rot / grün	Hard	When this app is used, the indicators on the LED display will light up "green" and "red" when the speed limit is observed and exceeded, respectively.	✓	✓	
Duo Color rot / amber	Hard	When this app is used, the indicators on the LED display will light up "amber" and "red" when the speed limit is observed and exceeded, respectively.	✓	✗	
Tri Color	Hard	In contrast to the Duo Colour app, this app offers a transitional stage that gives the driver additional time to act before the indicator switches to "red". This range of tolerance is	✓	✗	
2 Directions	Soft	In addition to the coming lane, the outgoing lane is also detected but not displayed.	✓	✓	

10 Activation of the DSD

If www.mytrafficdata.com is used, Datacollect will activate the DSD on your account.

10.1 Use as a speed display

If the DSD is used solely as a speed display, without safety display, **no** further settings need to be made!

10.2 Setup via Handie App (optional)

The handie function is used to change the safety threshold **without using a DataCollector.** You may choose between the following threshold values:

7 km/h, 10 km/h, 20 km/h, 30 km/h, 40 km/h, 50 km/h, 60 km/h, 70 km/h, 80 km/h, 90 km/h and **100 km/h**.

00 = Off

The Handie function can only be adjusted during the start sequence of the display system. Therefore, the power supply of the DSD must be briefly interrupted (by removing and re-installing the power supply).

The start sequence now starts again, while the safety threshold can be adjusted. During the start sequence, a **horizontal bar (see illustration)** appears. As soon as this is visible, the adjustment of the threshold value can be performed.

Cover (while the horizontal bar is visible) the area marked by the hand three times extensively, i.e. cover the light sensor, remove the cover, cover, remove etc. Then the last set safety threshold is displayed. If you then again cover the light sensor and remove it again, the next available threshold value is displayed.

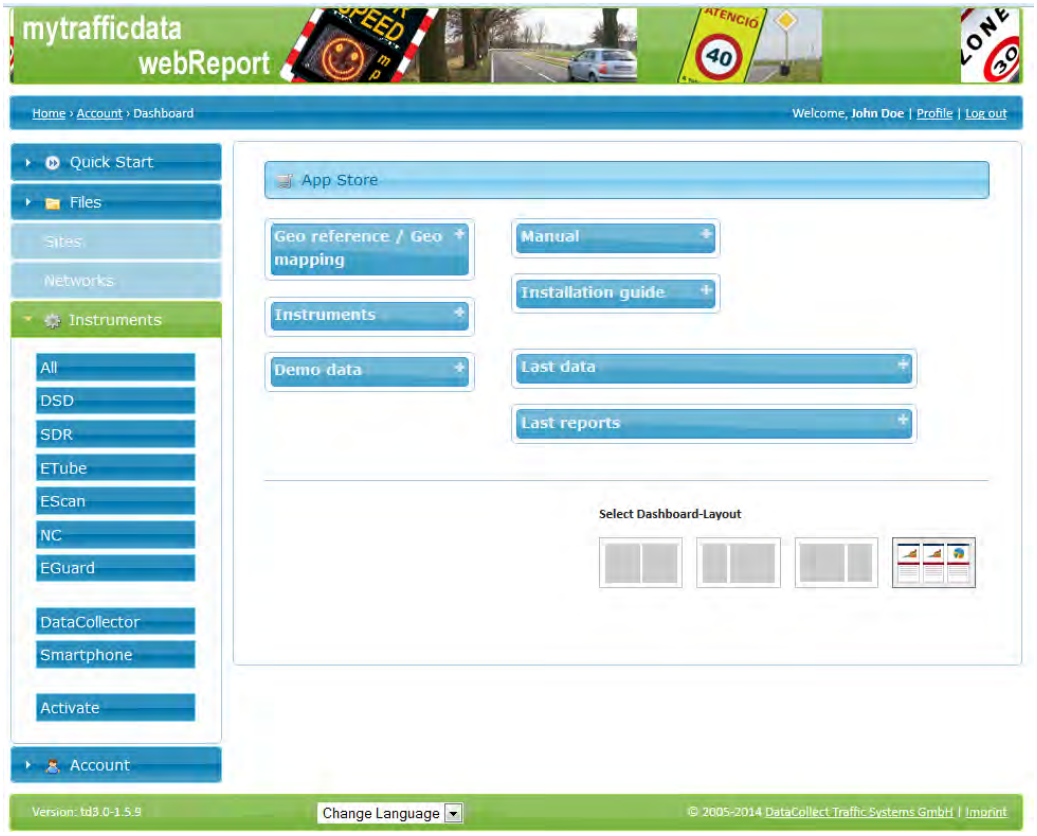
Repeat these steps until your desired threshold value is reached. If you do not make any changes for approx. 10 seconds, the selected safety threshold is confirmed by flashing three times. The start sequence is now continued and ends with the display of the battery voltage. The DSD is ready for operation with the desired threshold value.

10.3 **Activating the DataCollector (www.myTrafficData.com)**

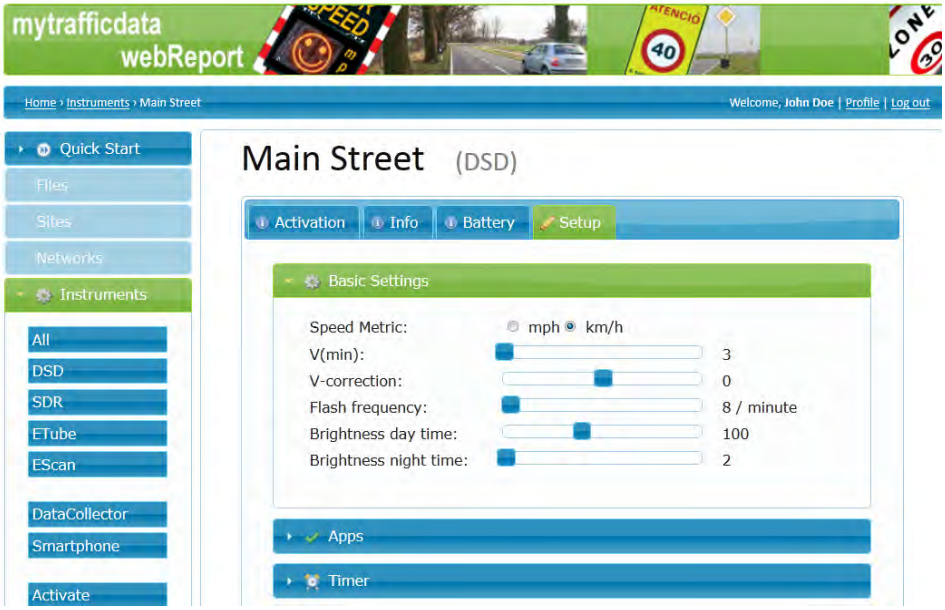
The DataCollector does not have to be activated separately. It will be automatically added to your account the first time you evaluate data.

11 Setup of the DSD at www.myTrafficData.com

Please login to mytrafficdata.com and click on the menu point **Instrument / DSD.**



11.1 Settings in the panel Basic settings



If you want to give the DSD alias name, please click on the serial number and an editable field will open. Here you can assign an alias name at any time. For example you can number your DSD. Confirm the entry with Enter. In addition to the serial number, the name you assigned is now displayed in the device list.

First of all you can perform the basic configuration of your DSD in the basic settings panel.

Basic setting	Description
Speed measurement	Switchover option between km/h and mp/h
V(min)	Speed from which recorded vehicles are stored and displayed.
V-correction	If the measuring location does not allow perfect installation and you detect a deviation of the measured speed, you can manually correct that speed. The set value is then added or subtracted upon each recorded speed. Standard value = 0.
Flashing frequency	Here you can set the duration of the display of individual elements when changing over between speed and safety. Default value = 8 / minute.
Brightness, daytime *	Defines the brightness depending on the daylight recorded by the DSD. Default value = 128
Brightness, nighttime *	States the basic brightness of the DSD display. Default value = 10

*In all cases, an increase of the respective value leads to a brighter display. Respectively, a reduction of the values leads to a lesser brightness of the light-emitting diodes.

Caution: We recommend to not change the factory-set values!

11.1.1 Settings in the panel *Apps*

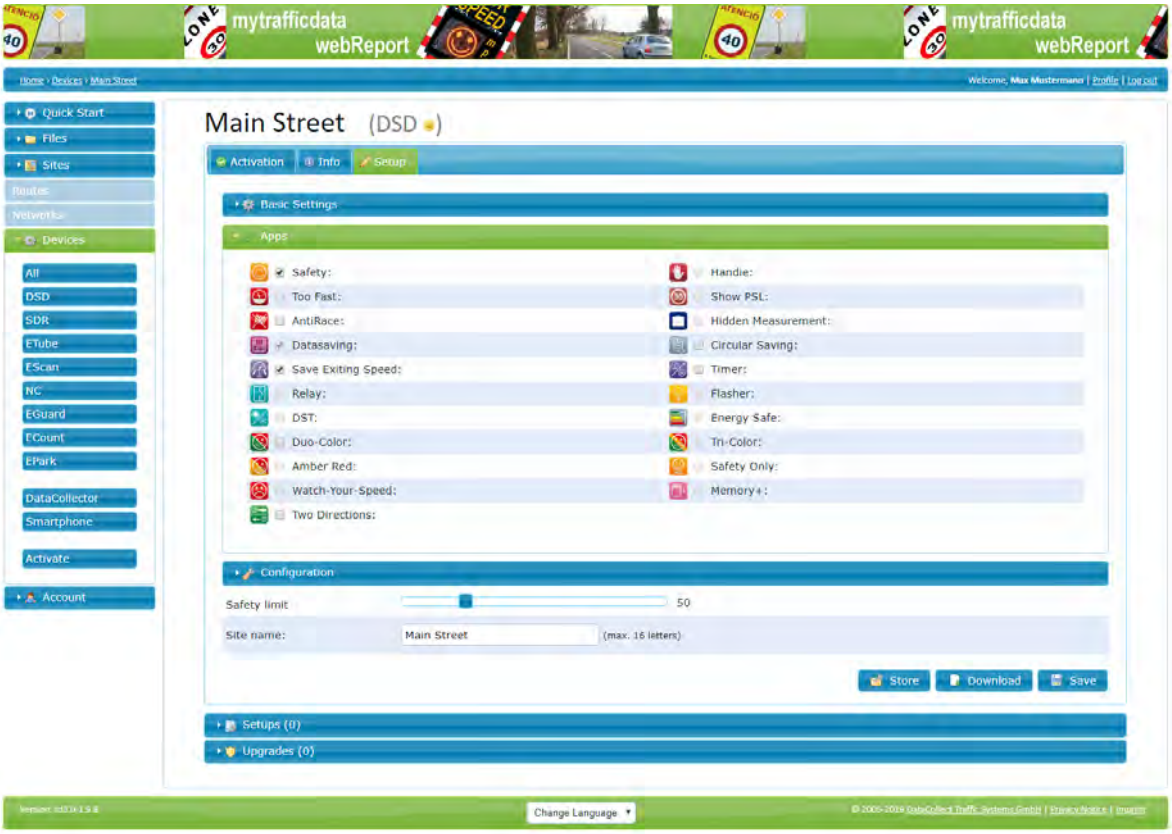
Under the panel Apps you can select the basic functions of your DSD. Only the apps you have purchased can be activated. An explanation of the individual apps can be found in **Chapter 9 Apps of the DSD.**

The apps which you need for your current measurement can be activated by ticking the box.

Attention: only purchased apps can be activated.

Example setup 1 – App Code LH007

Purchased Apps: Data recording, Safety, Exit speed

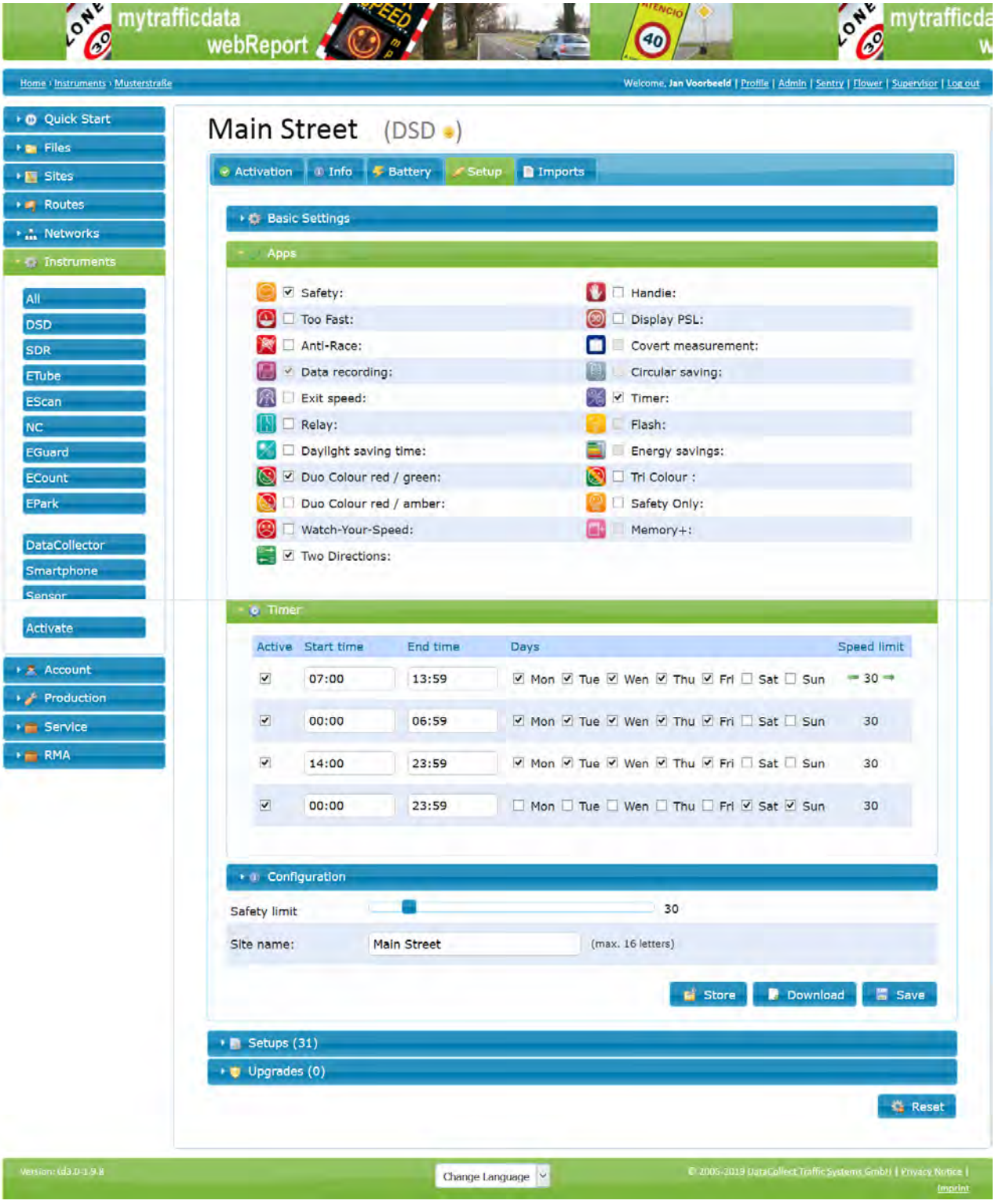


The setting possibilities under Configuration vary according to the selected functions.

Type of threshold value	Description
Safety threshold value	The speed value is set by adjusting the regulator, by which the Safety display changes from a laughing to a sad face.
Lower threshold value	States the speed up to which a special display is shown on the DSD.
Display possibilities	(1) Display off: The DSD has no display
	(2) Static speed display

Example Setup 2 - App Code URCU127

Purchased Apps: Safety, Timer, Data Recording, Two Directions



Panel Timer

Here you can set the period in which your DSD should be active. There are up to four time periods and two different speed limits definable. By ticking the period, you are activating the setting per period.

The previous screenshot shows the following example scenario:

1. active weekdays between 07: 00-14: 00 clock - speed limit 30 km / h
2. active weekdays between 0:00 - 06:59 and - 14:00 - 23:59 clock - speed limit 50km / h
3. Active all weekend - speed limit 50km / h

You can now also set 2 different safety thresholds. Next to the time period are two arrows that allow you to regulate the speed thresholds of the first activated time period. The second threshold value can be set using the slider under the Configuration panel.

Caution: The DSD is deactivated in the periods not defined, hence it neither displays any speeds, nor does it record the traffic data!

If you have **additionally** acquired the **Safety app**, you can set an individual Safety threshold for each period. Next to the period there are two arrows, by means of which you can regulate the speed.

If you have acquired the **Display PSL app** as well as the timer function, you can adjust the allowed speed limit in the defined periods using the arrows.

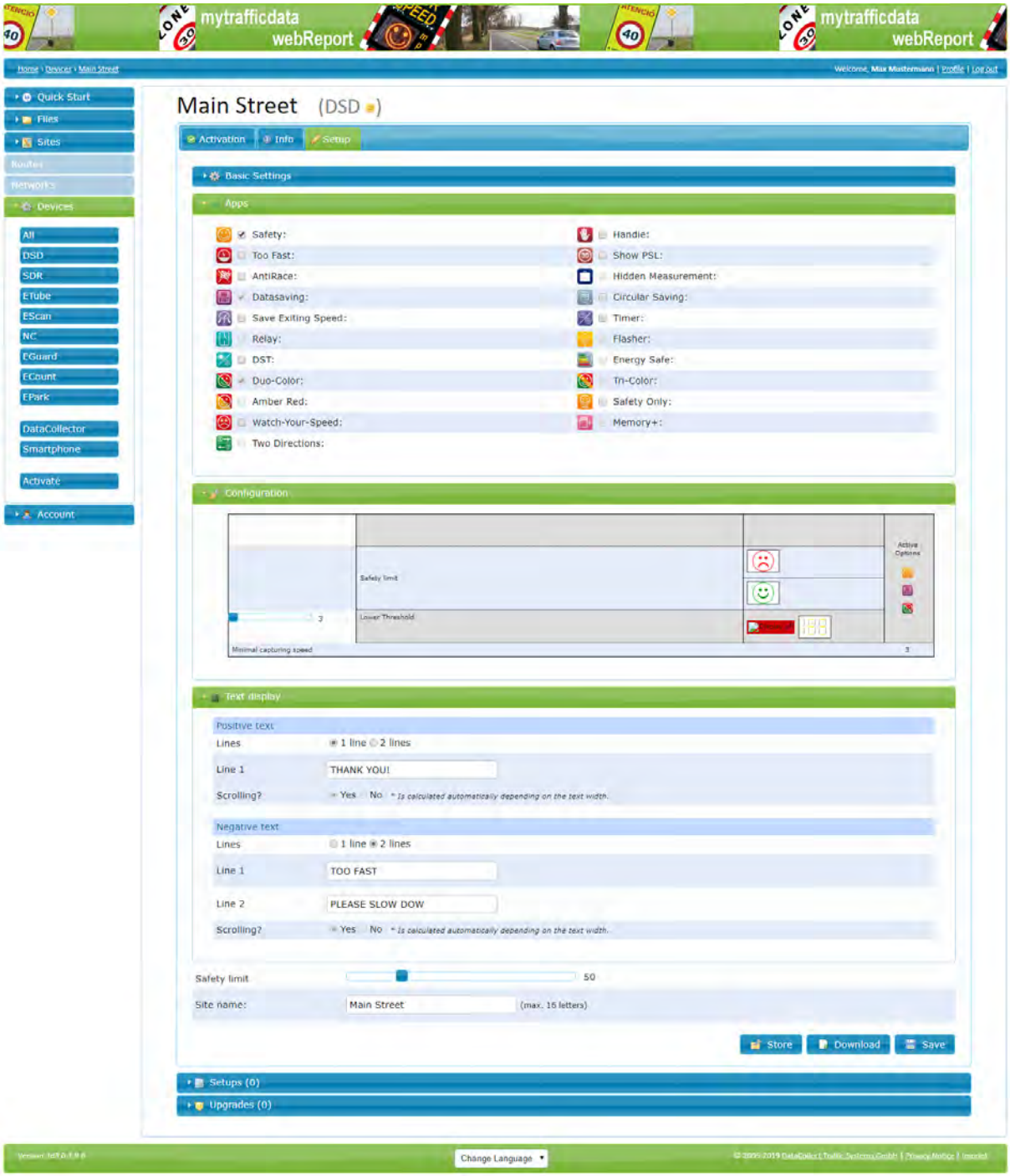
Panel configuration

The setting possibilities under **Configuration** vary according to the selected functions.

Type of threshold value	Description
Safety threshold value	The speed value is set by pushing the regulator, by which the Safety display changes from a laughing to a sad face.
Upper threshold value	States the speed to be reached to initiate a DSD display.
Display possibilities	(1) Display off: The DSD has no display
	(2) Bar: the DSD shows 6 horizontal bars
	(3) Safety: The DSD displays a “sad” face
Lower threshold value	States the speed up to which a special display is shown on the DSD.
Display possibilities	(1) Display off: The DSD has no display
	(2) Static speed display

Example setup 5- App Code 1LH003

Purchased Apps: Safety, Relay, Data recording



1 or 2 lines can be entered for the **Textdisplay**. Whether the text is displayed as scrolling text depends on the length of the entered text and is decided independently by the website.

12 Download / Transmit setup file

12.1 Via DataCollector

Create the setup file by clicking the **Download** button.

Storage location for DataCollector: DataCollector SD card

Insert the SD card with the saved setup file in the DataCollector and connect your DSD to the power supply.

Follow these steps:

Step	Description	DataCollector Symbol	Display duration
1	Performance of the intro – see chapter 10	-	approx. 2sec
2	After the intro the white LED in the GetData button prompts you to press it by flashing.		approx. 15sec
3*	Scan for *Bluetooth*®-enabled devices (DSD, SDR) if the DataCollector's internal memory does not already show such devices. The scan process is visualised by the fast flashing of the *Bluetooth*® LED. As soon as a *Bluetooth*® contact is established to a device, the fast flashing of the LED switches to continuous illumination.		approx. 45sec
4	Communication establishment to the now connected device is shown by a slow flashing Bluetooth LED.		approx. 5sec

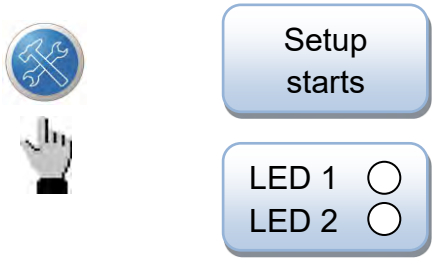
Step	Description	DataCollector Symbol	Display duration
5	Download of the system and traffic data stored in the device, storage of this data on the SD card of the DataCollector in the form of files with the extensions *.dsd // *.sdr. Now the Bluetooth and SD Card LED continue to flash slowly during the download.		approx. 20sec
6	In the next step the Setup button prompts you to press it by flashing.		approx. 5sec
7	The Setup file stored on the SD card of the DataCollector is now transferred via the still existing communication connection between the DataCollector and the instrument.		approx. 3sec
8	The completion will be automatically fulfilled without any keystroke. Then the DataCollector automatically switches off (Auto off).	-	-

*If devices are already stored in the DataCollector's internal memory, the connection to a stored device will be established immediately (approx. 6s / device). The order of the devices to be contacted is defined by the list of recently contacted devices which is stored in the DataCollector. If several instruments are within the *Bluetooth*® range of a DataCollector, switching over between the instruments can take place as soon as the BT communication to a instrument is established – **see DataCollector Manual / Chapter 15.3**.

Attention! You can create setup files only via your web access on www.myTrafficData.com. These files are exclusively device-specific, i.e. you can use DataCollector only to parametrise the respective device for which you have created a *setup file* on the website!

Several setup files from different devices can be saved simultaneously on one SD card and transferred to the respective device one after the other.

When you press Setup, DataCollector starts the transfer of the setup file to the DSD. This process takes about 3 seconds. During the entire setup process the LEDs of the DSD remain switched off.



Afterwards, an **Online mode** starts for the purpose of a function check. The DSD then reports detected vehicles to the DataCollector for a period of about 2 minutes. The vehicles are then displayed based on their direction of travel, as follows:

(A) Vehicles approaching the DSD:

- **Get Data LED flashes**

(B) Vehicles moving away from the DSD (only DSD*traffic*):

- **Setup LED flashes**

The online mode can be extended another 2 minutes by pressing one of the two keys (retrigger).

If there is no setup file or no valid setup file for the connected DSD, this is indicated by fast flashing of the SD card LED. Finally, the communication is terminated. The DataCollector switches off (Auto Off) and the DSD returns to operating mode.

12.2 **Via DSD with wireless data module (GSM / GPRS)**

This button is used to create the setup file. Click **Transmit** to transfer the setup file via GSM / GPRS to your DSD.

Attention! Please note that the setup-file is device-specific. This means that it can only be transferred by push-button to the DSD for which the setup was carried out.

13 Reading out of data from the DSD

13.1 DSD with *Bluetooth*® via DataCollector

Step	Description	DataCollector Symbol	Display duration
1	Performance of the intro – see chapter 10	-	approx. 2sec
2	After the intro the white LED in the GetData button prompts you to press it by flashing.		approx. 15sec
3*	Scan for *Bluetooth*®-enabled devices (DSD, SDR) if the DataCollector's internal memory does not already show such devices. The scan process is visualised by the fast flashing of the *Bluetooth*® LED. As soon as a *Bluetooth*® contact is established to a device, the fast flashing of the LED switches to continuous illumination.		approx. 45sec
5	A successful connection is indicated by a smiley face on your DSD.		-
6	Communication establishment to the now connected device is shown by a slow flashing Bluetooth LED.		approx. 5sec
7	Download of the system and traffic data stored in the device, storage of this data on the SD card of the DataCollector in the form of files with the extensions *.dsd // *.sdr. Now the Bluetooth and SD Card LED continue to flash slowly during the download.		approx. 20sec

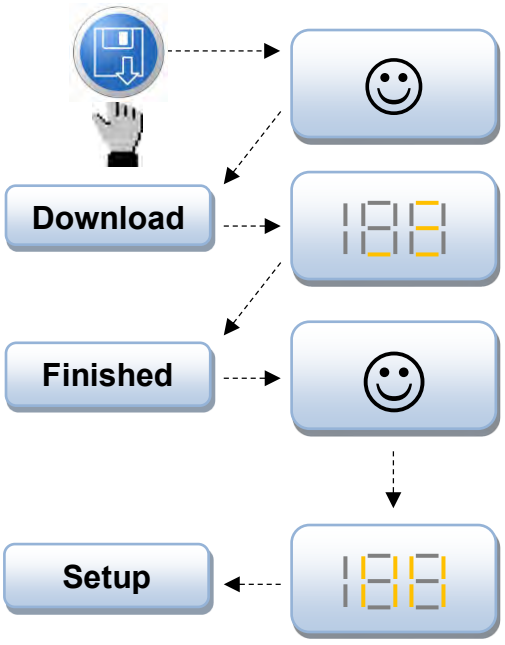
Step	Description	DataCollector Symbol	Display duration
7	The completion will be automatically fulfilled without any keystroke. Then the DataCollector automatically switches off (Auto off).	-	-

*If devices are already stored in the DataCollector's internal memory, the connection to a stored device will be established immediately (approx. 6s / device). The order of the devices to be contacted is defined by the list of recently contacted devices which is stored in the DataCollector. If several instruments are within the *Bluetooth*® range of a DataCollector, switching over between the instruments can take place as soon as the BT communication to a instrument is established – **see DataCollector Manual / Chapter 15.3**.

The establishment of the connection between the DataCollector and the device is confirmed by the DSD by means of a smiling Smiley.

The following data exchange is symbolised by means of a progress display (lit up cross bars of both 7-segment positions).

A smiling Smiley appears again after successful completion and finally four vertically lit up bars. These indicate that a communication connection still exists.



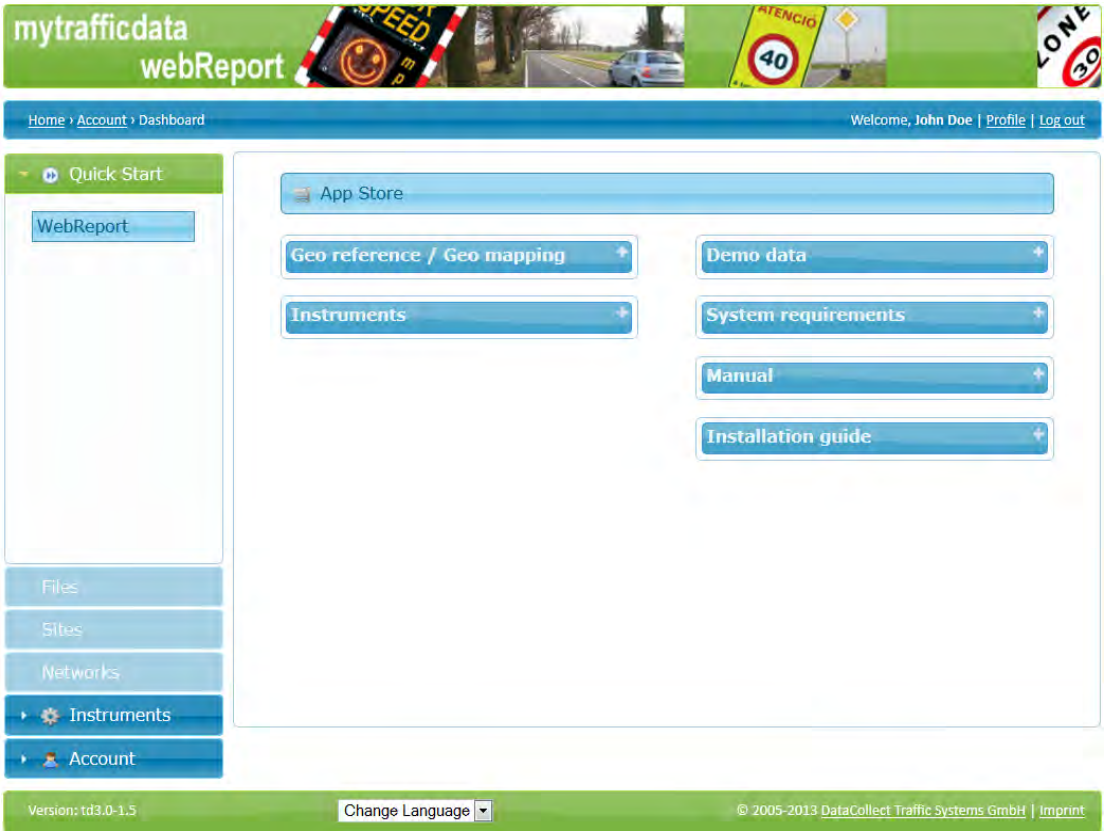
14 Evaluation via WebReport

14.1 Transfer of the measured data

After transferring the data from the DSD to the DataCollector there is a file on the SD card containing the measured data of your DSD. This file is named after the measuring point and has the ending *dsd (example: mainstreet.dsd)

For more information please refer to your DataCollector Manual.

Insert the SD card with the measured data into a card reader connected to the PC.



Simply login to www.myTrafficdata.com and select from the menu item **Quick start** on the left menu bar the function **WebReport.**

Click on **Search** and navigate to the file with the measured data of your DSD.

14.2 **Configuration**

In the next step you can make the settings for evaluation.

In the upper area you will see the line charts of the vehicle quantity and the entry and exit speed for the entire period in which the DSD was active.

Below the line chart there are two slide controllers for the limitation of the measuring period. For this, push the controller at the left and right-hand end of the blue bar.

Designation	Description
Scale	Zooms the line chart to the area set via the slide controller
Reset	Resets the setting for the period and zoom back to the overall data view.
Format	Here you can select the type of evaluation generated between standard (4 pages) and extended (4 pages + one additional page each per measuring day). This function can be optionally acquired.
Start date	Shows the date/time, at which the evaluation begins. To adjust the start date push the left-hand controller of the blue bar below the line chart.
End date	Shows the date/time on which the evaluation ends. To adjust the end date push the right-hand controller of the blue bar below the line chart.
Posted Speed Limit	You can adjust the speed limit of the measuring point here. The value is first adopted from the loaded file, but can be changed as required.
Velocity of vehicle exit	If you select the check box, the exit speed will be included in the evaluation.
Interval	Here you can select the time division for the aggregation.
Daily start and end time	Only vehicle data within the set time frame is considered in the evaluation. For full-day evaluation, please enter 0:00 as the start time and 23:59 as the end time.
Days	Here you can select which weekdays are to be considered in the evaluation.
Speed Interval Bin	You can create your own speed class sets (see profile) which you can select here.
Calc. speed	Line charts can be selected here, which are to be displayed in the speed diagram.
Two direction	If you select the checkbox, the report will also show the vehicles that were registered in the opposite direction.

14.3 **Definition v15, v50 and v85**

v15: Shows the speed, which is **not exceeded** by 15% of drivers.

v50: Shows the speed, which is **not exceeded** by 50 % of drivers.

v85: Shows the speed, which is **not exceeded** by 85 % of drivers.

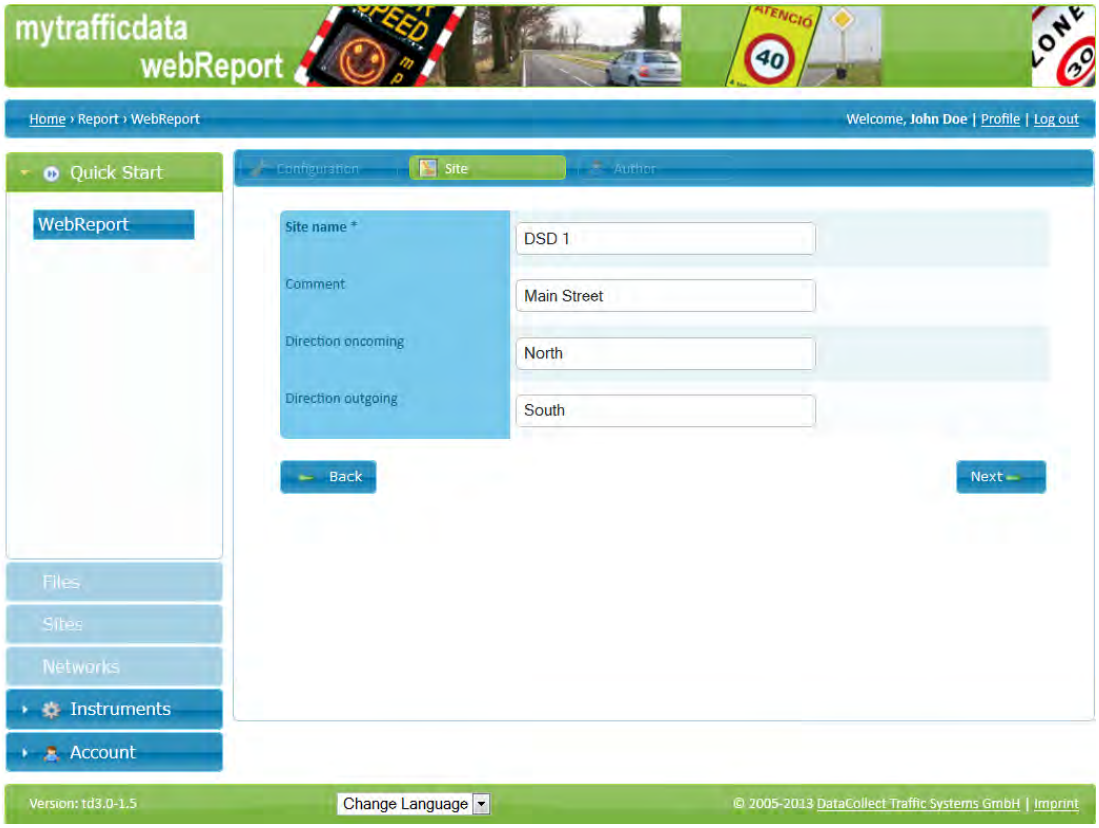
Example: You sort 100 vehicles ascending according to speed. The speed of the 86th vehicle corresponds with the value v85. You can therefore see whether the majority of drivers abide by the speed specified by the StVO (German Road Traffic Regulations).

If 85% of all vehicles adhere to the permissible top speed of e.g. 50 km/h, then this speed is considered to have been accepted by road traffic. If the value v85 is clearly above the permissible top speed, traffic planning/traffic calming measures should be taken.

Number of vehicles	km/h	v15 not exceeded by 15%	v85 not exceeded by 85%
1	2		
2	4		
3	6		
4	8		
5	10		
6	12		
7	14		
8	16		
9	18		
10	20		
11	22		
12	24		
13	26		
14	28		
15	30		
16	**32**	**V 15 value**	
17	34		
…	…	…	…
…	…	…	…
…	…	…	…
84	168		
85	170		
86	**172**		**V 85 value**
87	174		
88	176		
89	178		
90	180		
91	182		
92	184		
93	186		
94	188		
95	190		
96	192		
97	194		
98	196		
99	198		
100	200		

You can proceed to the next step via the **Continue** button.

14.4 **Site**



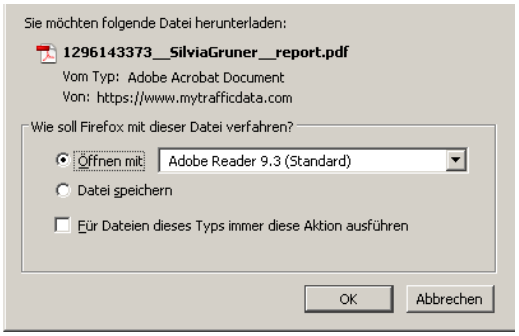
Here, you can specify detailed information on the measuring point. While adopted from the measuring data stored in the setup file, the name of the measuring point can also be edited here. All fields are alphanumerical and limited to 16 characters.

You can proceed to the next step with a press of the **Next** button.

14.5 **Author**

Here you can state details of the author, which will later appear on the report. You also have the possibility by means of Search to add your individual logo (*.jpg; *.bmp; *.png; *.gif). The entries are adopted from your profile, but can be changed at random. Changes at this point are not transferred to your profile!

If you click on the **Download** button an evaluation in .pdf format is generated. You can save these on your PC. For this you require a pdf reader (e.g. Adobe Reader). If you do not have this software installed on your computer you can download it free of charge e.g. from http://get.adobe.com/uk/reader/.



14.6 **Sample evaluation**

After having requested the report you can directly **open** the evaluation or save it under **Save file** on your PC.

14.6.1 Basic for just oncoming direction

Basic report page 1

Traffic report

powered by datacollect

Author

Institution	John Doe Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal code	12345
City	Model Town
Country	Germany
Contact	John Doe
Phone	+44-1234-5678-0
Email	demo@john-doe.com

Generated with DataCollect Webreporter version 1.0 at 11/09/2013 14:10:12

Site

Name	DSD 1
Dir. Oncoming (name)	North
Dir. Outgoing (name)	South
Posted Speed Limit	30
Comment	Main Street
Device type	**DSD**

Time Range

Start date	15/03/2013 12:00
End date	22/03/2013 10:59
Days	Mo, Tu, We, Th, Fr, Sa, Su
Time Interval	60 minutes
Time / Day	00:00 - 23:59

Speed Classes [V in km/h]

Time	Σ	10	20	30	40	50	60	70	80	90	100	110	>110
00:00-06:00	293	0	10	101	135	43	4	0	0	0	0	0	0
06:00-09:00	1037	3	38	449	442	102	3	0	0	0	0	0	0
15:00-19:00	2049	0	91	699	984	260	15	0	0	0	0	0	0
06:00-22:00	6501	7	233	2334	3143	736	46	2	0	0	0	0	0
00:00-24:00	6879	7	246	2458	3317	792	57	2	0	0	0	0	0

Calculated speeds [V in km/h]

DSD SAFETY Success

Vmin	Vavg	Vmax	V15	V50	V85	Vexc %
7	33	64	26	32	40	60.6

Vin	Vout	Vred	Vred %
33	30	-3	-9

Descriptions

Vmin: Minimal velocity
Vavg: Average velocity
Vmax: Maximal velocity
V15: Critical velocity for the first 15% of vehicles
V50: Critical velocity for the first 50% of vehicles
V85: Critical velocity for the first 85% of vehicles
Vexc %: Speeding in %
Vin: Average entry velocity
Vout: Average exit velocity
Vred: Average speed reduction between entry and exit velocity

Basic report page 2

Traffic report

powered by datacollect

Author

Institution	John Doe Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal code	12345
City	Model Town
Country	Germany
Contact	John Doe
Phone	+44-1234-5678-0
Email	demo@john-doe.com

Generated with DataCollect Webreporter version 1.0 at 11/09/2013 14:10:12

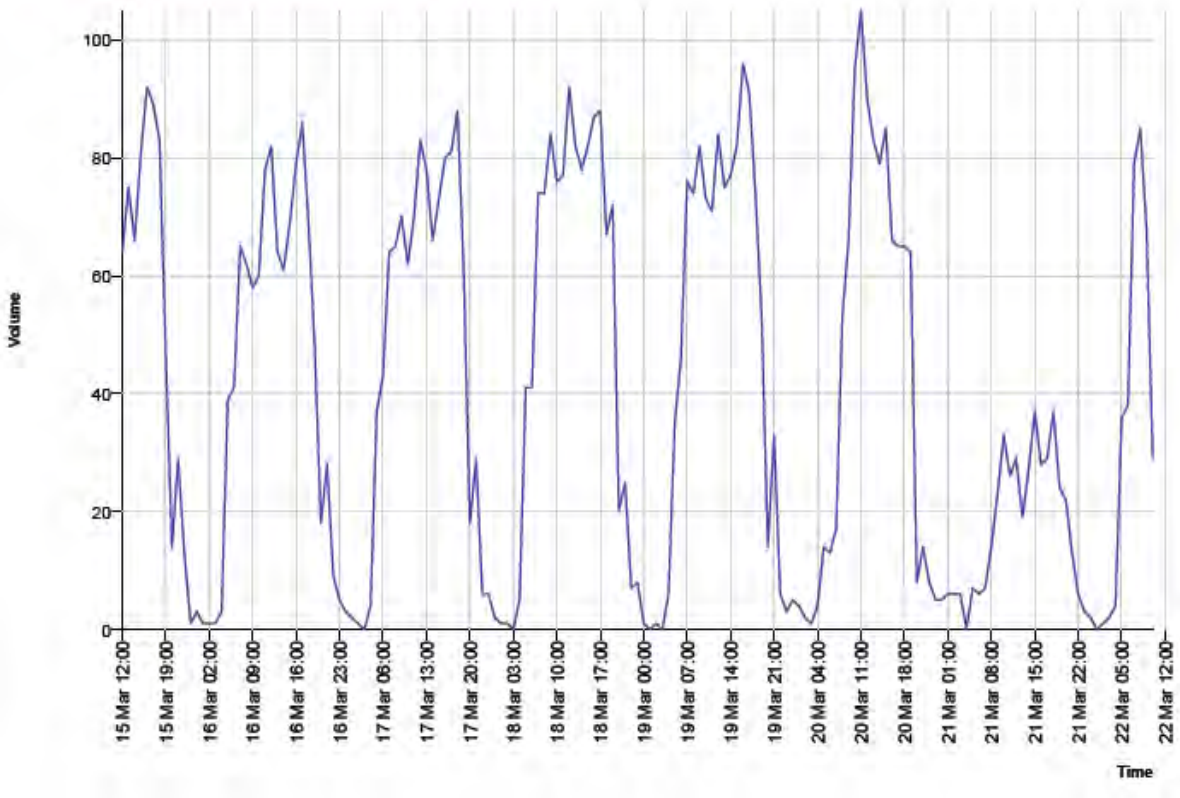
Site

Name	DSD 1
Dir. Oncoming (name)	North
Dir. Outgoing (name)	South
Posted Speed Limit	30
Comment	Main Street
Device type	**DSD**

Time Range

Start date	15/03/2013 12:00
End date	22/03/2013 10:59
Days	Mo, Tu, We, Th, Fr, Sa, Su
Time Interval	60 minutes
Time / Day	00:00 - 23:59

Time / Volume graph



Basic report page 3

Traffic report

powered by datacollect

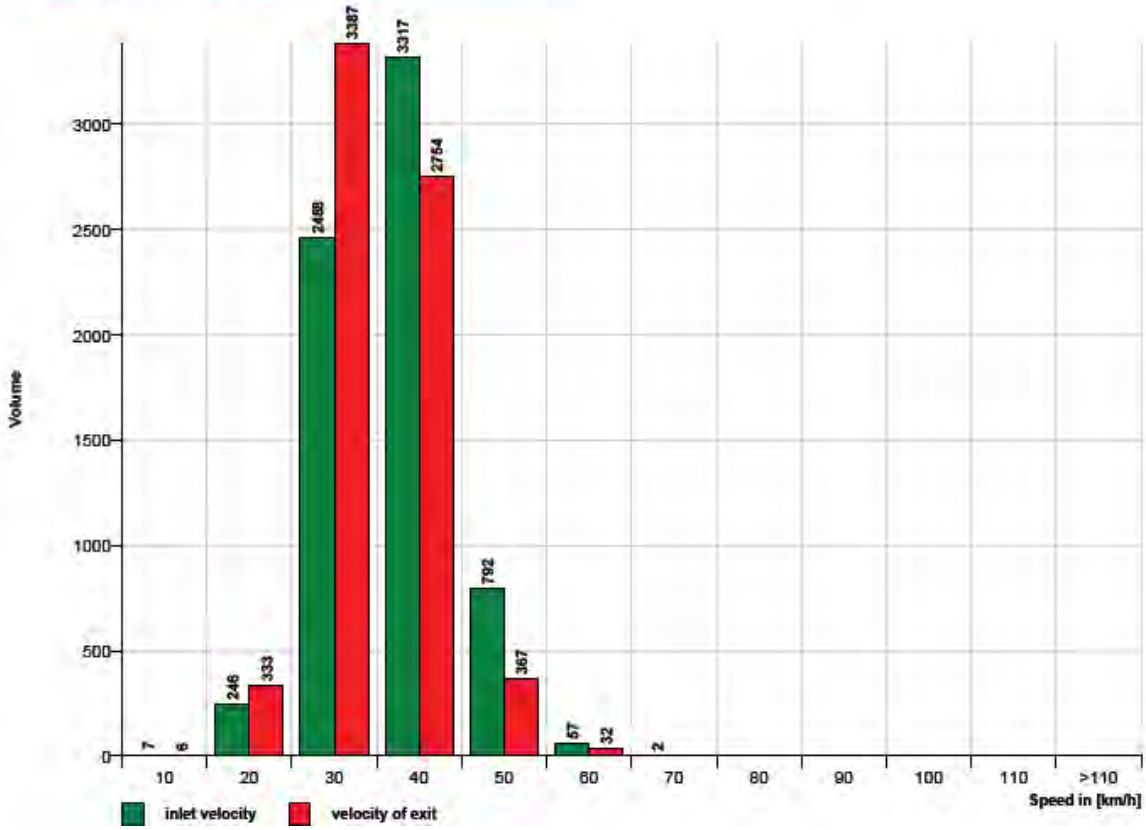
Author	
Institution	John Doe Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal code	12345
City	Model Town
Country	Germany
Contact	John Doe
Phone	+44-1234-5678-0
Email	demo@john-doe.com

Generated with DataCollect Webreporter version 1.0 at 11/09/2013 14:10:12

Site	
Name	DSD 1
Dir. Oncoming (name)	North
Dir. Outgoing (name)	South
Posted Speed Limit	30
Comment	Main Street
Device type	**DSD**

Time Range	
Start date	15/03/2013 12:00
End date	22/03/2013 10:59
Days	Mo, Tu, We, Th, Fr, Sa, Su
Time Interval	60 minutes
Time / Day	00:00 - 23:59

Speed histogram



Basic report page 4

Traffic report

powered by datacollect

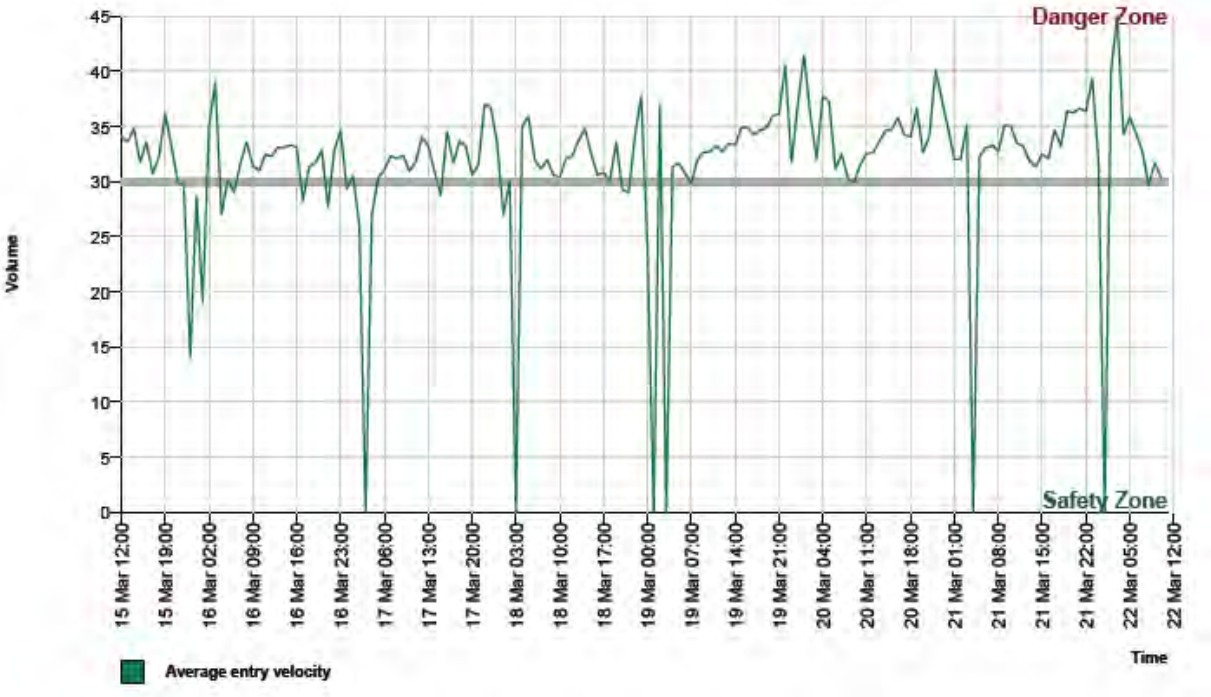
Author	
Institution	John Doe Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal code	12345
City	Model Town
Country	Germany
Contact	John Doe
Phone	+44-1234-5678-0
Email	demo@john-doe.com

Generated with DataCollect Webreporter version 1.0 at 11/09/2013 14:10:12

Site	
Name	DSD 1
Dir. Oncoming (name)	North
Dir. Outgoing (name)	South
Posted Speed Limit	30
Comment	Main Street
Device type	**DSD**

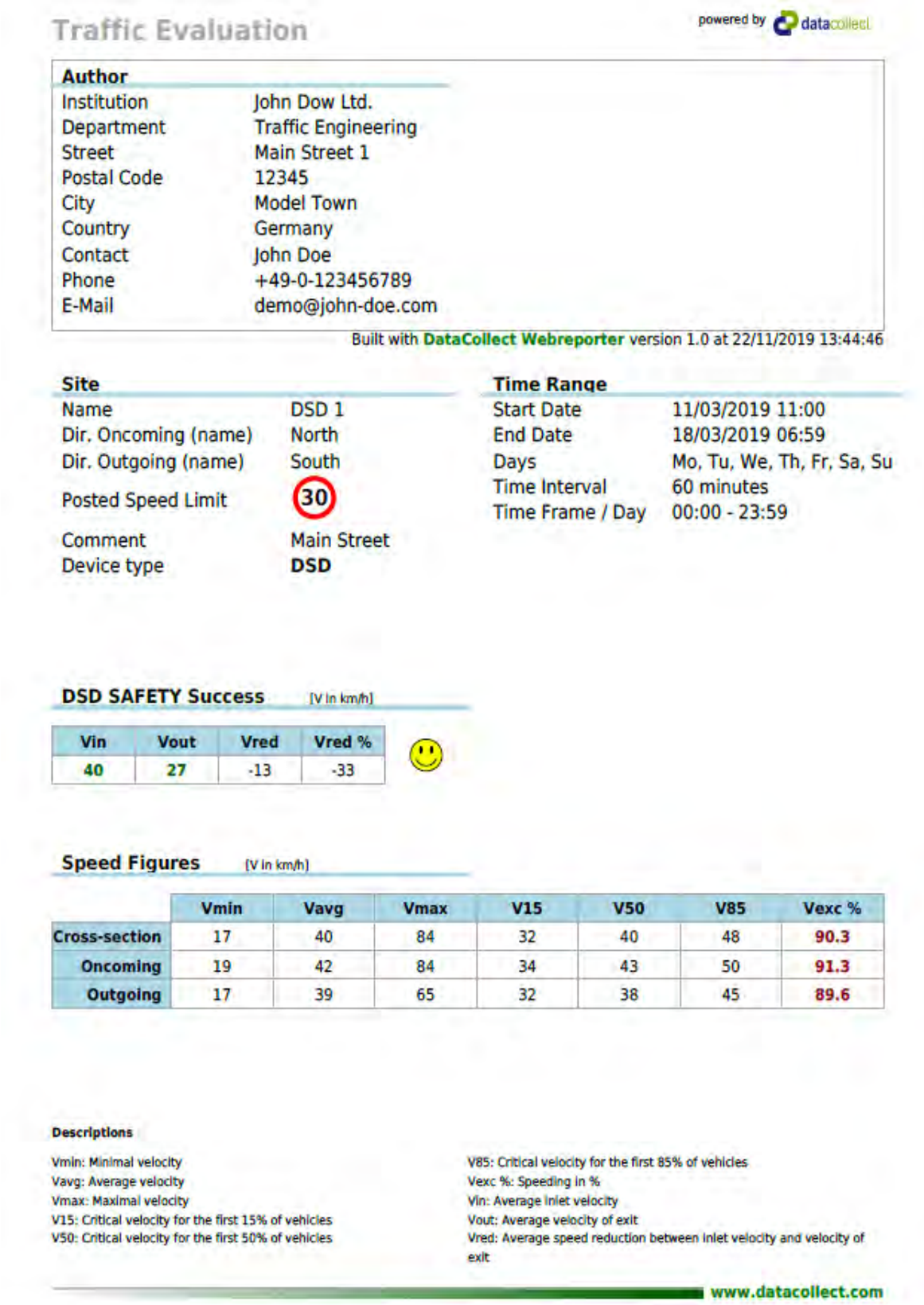
Time Range	
Start date	15/03/2013 12:00
End date	22/03/2013 10:59
Days	Mo, Tu, We, Th, Fr, Sa, Su
Time Interval	60 minutes
Time / Day	00:00 - 23:59

Calc. Diagram



14.6.2 Basic for “Two directions”

Basic report page 1



Traffic Evaluation

powered by datacollect

Author

Institution	John Dow Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal Code	12345
City	Model Town
Country	Germany
Contact	John Doe
Phone	+49-0-123456789
E-Mail	demo@john-doe.com

Built with **DataCollect Webreporter** version 1.0 at 22/11/2019 13:44:46

Site

Name	DSD 1
Dir. Oncoming (name)	North
Dir. Outgoing (name)	South
Posted Speed Limit	30
Comment	Main Street
Device type	**DSD**

Time Range

Start Date	11/03/2019 11:00
End Date	18/03/2019 06:59
Days	Mo, Tu, We, Th, Fr, Sa, Su
Time Interval	60 minutes
Time Frame / Day	00:00 - 23:59

DSD SAFETY Success [V in km/h]

Vin	Vout	Vred	Vred %
40	27	-13	-33

Speed Figures [V in km/h]

	Vmin	Vavg	Vmax	V15	V50	V85	Vexc %
Cross-section	17	40	84	32	40	48	90.3
Oncoming	19	42	84	34	43	50	91.3
Outgoing	17	39	65	32	38	45	89.6

Descriptions

Vmin: Minimal velocity
Vavg: Average velocity
Vmax: Maximal velocity
V15: Critical velocity for the first 15% of vehicles
V50: Critical velocity for the first 50% of vehicles
V85: Critical velocity for the first 85% of vehicles
Vexc %: Speeding in %
Vin: Average inlet velocity
Vout: Average velocity of exit
Vred: Average speed reduction between inlet velocity and velocity of exit

www.datacollect.com

Basic report page 2

Traffic Evaluation

powered by datacollect

Author

Institution	John Dow Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal Code	12345
City	Model Town
Country	Germany
Contact	John Doe
Phone	+49-0-123456789
E-Mail	demo@john-doe.com

Built with **DataCollect Webreporter** version 1.0 at 22/11/2019 13:54:19

Site

Name	DSD 1
Dir. Oncoming (name)	North
Dir. Outgoing (name)	South
Posted Speed Limit	30
Comment	Main Street
Device type	**DSD**

Time Range

Start Date	11/03/2019 11:00
End Date	18/03/2019 06:59
Days	Mo, Tu, We, Th, Fr, Sa, Su
Time Interval	60 minutes
Time Frame / Day	00:00 - 23:59

Speed Classes (Incoming) [V in km/h]

Time	Σ	10	20	30	40	50	60	70	80	90	100	110	>110
00:00-06:00	91	0	0	7	25	33	22	4	0	0	0	0	0
06:00-09:00	295	0	3	25	101	132	32	2	0	0	0	0	0
15:00-19:00	1016	0	1	96	317	502	92	7	1	0	0	0	0
06:00-22:00	2785	0	6	242	856	1330	309	37	4	1	0	0	0
00:00-24:00	3012	0	6	255	913	1416	367	50	4	1	0	0	0

Speed Classes (Outgoing) [V in km/h]

Time	Σ	10	20	30	40	50	60	70	80	90	100	110	>110
00:00-06:00	215	0	0	17	105	83	10	0	0	0	0	0	0
06:00-09:00	669	0	3	51	372	223	20	0	0	0	0	0	0
15:00-19:00	1288	0	5	142	707	395	37	2	0	0	0	0	0
06:00-22:00	4063	0	14	418	2149	1333	146	3	0	0	0	0	0
00:00-24:00	4392	0	15	442	2310	1460	161	4	0	0	0	0	0

www.datacollect.com

Basic report page 3

Traffic Evaluation

powered by datacollect

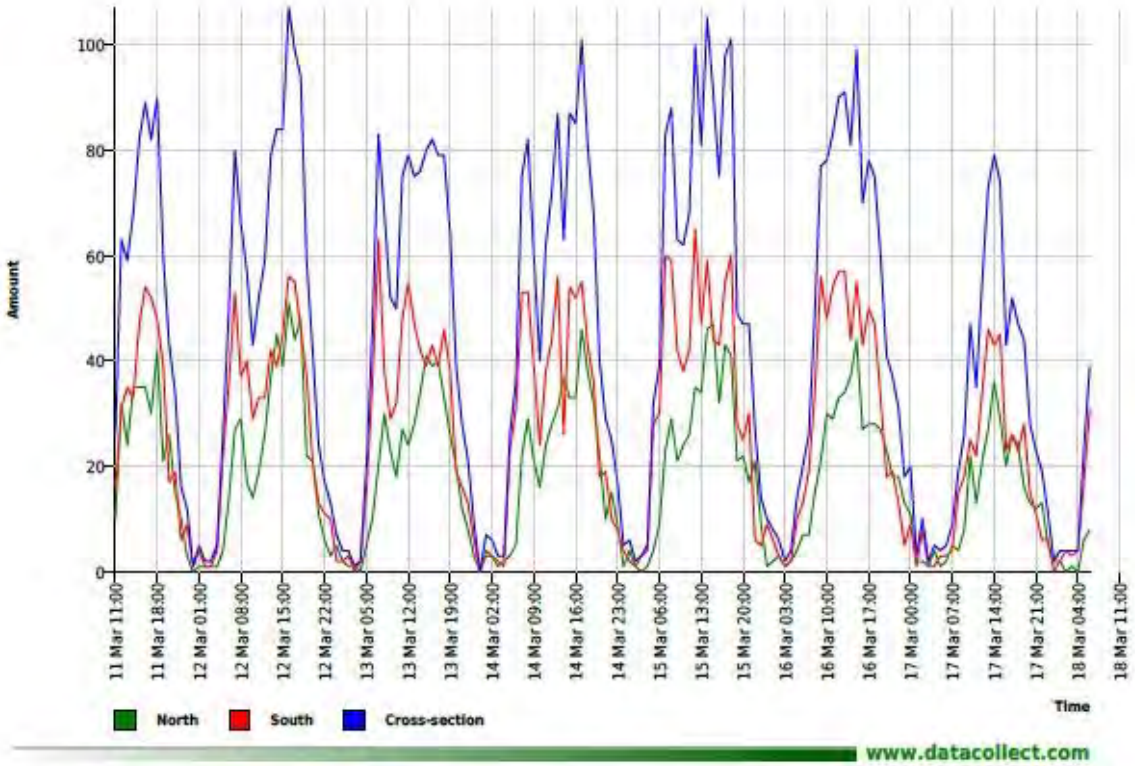
Author	
Institution	John Dow Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal Code	12345
City	Model Town
Country	Germany
Contact	John Doe
Phone	+49-0-123456789
E-Mail	demo@john-doe.com

Built with **DataCollect Webreporter** version 1.0 at 22/11/2019 13:54:20

Site	
Name	DSD 1
Dir. Oncoming (name)	North
Dir. Outgoing (name)	South
Posted Speed Limit	30
Comment	Main Street
Device type	**DSD**

Time Range	
Start Date	11/03/2019 11:00
End Date	18/03/2019 06:59
Days	Mo, Tu, We, Th, Fr, Sa, Su
Time Interval	60 minutes
Time Frame / Day	00:00 - 23:59

Time Variation Curve



www.datacollect.com

Basic report page 4

Traffic Evaluation

powered by datacollect

Author

Institution	John Dow Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal Code	12345
City	Model Town
Country	Germany
Contact	John Doe
Phone	+49-0-123456789
E-Mail	demo@john-doe.com

Built with **DataCollect Webreporter** version 1.0 at 22/11/2019 13:54:20

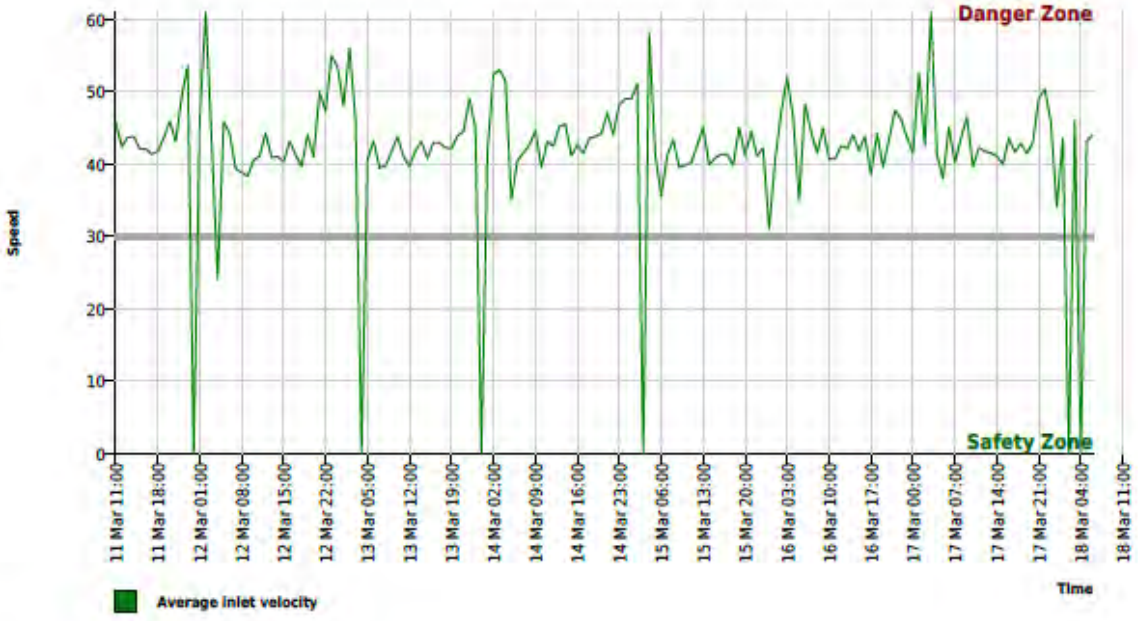
Site

Name	DSD 1
Dir. Oncoming (name)	North
Dir. Outgoing (name)	South
Posted Speed Limit	30
Comment	Main Street
Device type	**DSD**

Time Range

Start Date	11/03/2019 11:00
End Date	18/03/2019 06:59
Days	Mo, Tu, We, Th, Fr, Sa, Su
Time Interval	60 minutes
Time Frame / Day	00:00 - 23:59

Speed Diagram (Direction Oncoming)



www.datacollect.com

Basic report page 5

Traffic Evaluation

powered by datacollect

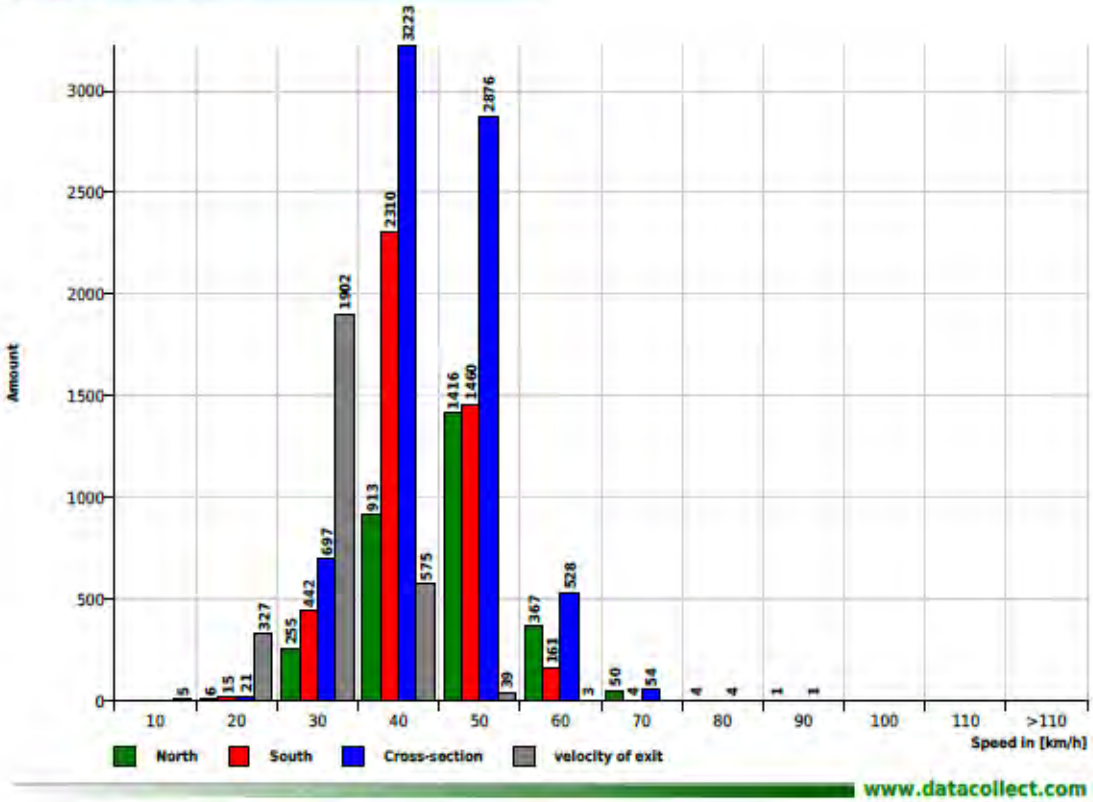
Author	
Institution	John Dow Ltd.
Department	Traffic Engineering
Street	Main Street 1
Postal Code	12345
City	Model Town
Country	Germany
Contact	John Doe
Phone	+49-0-123456789
E-Mail	demo@john-doe.com

Built with **DataCollect Webreporter** version 1.0 at 22/11/2019 13:54:20

Site	
Name	DSD 1
Dir. Oncoming (name)	North
Dir. Outgoing (name)	South
Posted Speed Limit	30
Comment	Main Street
Device type	**DSD**

Time Range	
Start Date	11/03/2019 11:00
End Date	18/03/2019 06:59
Days	Mo, Tu, We, Th, Fr, Sa, Su
Time Interval	60 minutes
Time Frame / Day	00:00 - 23:59

Speed Histogram



www.datacollect.com

14.6.3 Extended report

Extended report page 1, Starts directly afer the basic report

John Doe Ltd.: DSD 1 powered by datacollect

Time	Σ	10	20	30	40	50	60	70	80	90	100	110	>110	Vmin	Vmax	Vavg	V15	V50	V85	Vout
15/03/2013 12:00	64	0	2	14	39	9	0	0	0	0	0	0	0	15	48	34	28	34	40	31
15/03/2013 13:00	75	0	1	23	43	8	0	0	0	0	0	0	0	12	50	33	28	33	40	30
15/03/2013 14:00	66	0	1	10	44	11	0	0	0	0	0	0	0	20	50	34	30	33	43	31
15/03/2013 15:00	81	0	5	29	36	11	0	0	0	0	0	0	0	11	47	31	25	32	39	30
15/03/2013 16:00	92	0	2	28	53	8	1	0	0	0	0	0	0	19	60	33	28	34	39	30
15/03/2013 17:00	89	0	3	37	44	5	0	0	0	0	0	0	0	17	44	30	26	31	36	28
15/03/2013 18:00	83	0	4	29	44	6	0	0	0	0	0	0	0	14	50	32	27	33	38	30
15/03/2013 19:00	47	0	0	9	25	13	0	0	0	0	0	0	0	23	50	36	30	35	42	32
15/03/2013 20:00	14	0	0	6	4	4	0	0	0	0	0	0	0	21	50	33	26	32	43	31
15/03/2013 21:00	29	0	0	20	6	3	0	0	0	0	0	0	0	21	50	29	25	28	37	28
15/03/2013 22:00	13	0	1	6	6	0	0	0	0	0	0	0	0	19	39	29	22	28	39	29
15/03/2013 23:00	1	0	1	0	0	0	0	0	0	0	0	0	0	14	14	14	14	14	14	14

[Fri, 15 March]	Σ	10	20	30	40	50	60	70	80	90	100	110	>110	Vmin	Vmax	Vavg	V15	V50	V85	Vout
00:00-06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00-09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00-19:00	345	0	14	123	177	30	1	0	0	0	0	0	0	11	60	32	26	32	38	29
06:00-22:00	640	0	18	205	338	78	1	0	0	0	0	0	0	11	60	32	27	33	39	30
00:00-24:00	654	0	20	211	344	78	1	0	0	0	0	0	0	11	60	32	27	33	39	30

Extended report page 6 (total number of pages) = 4 or 6+n, whereby n = number of measurement days)

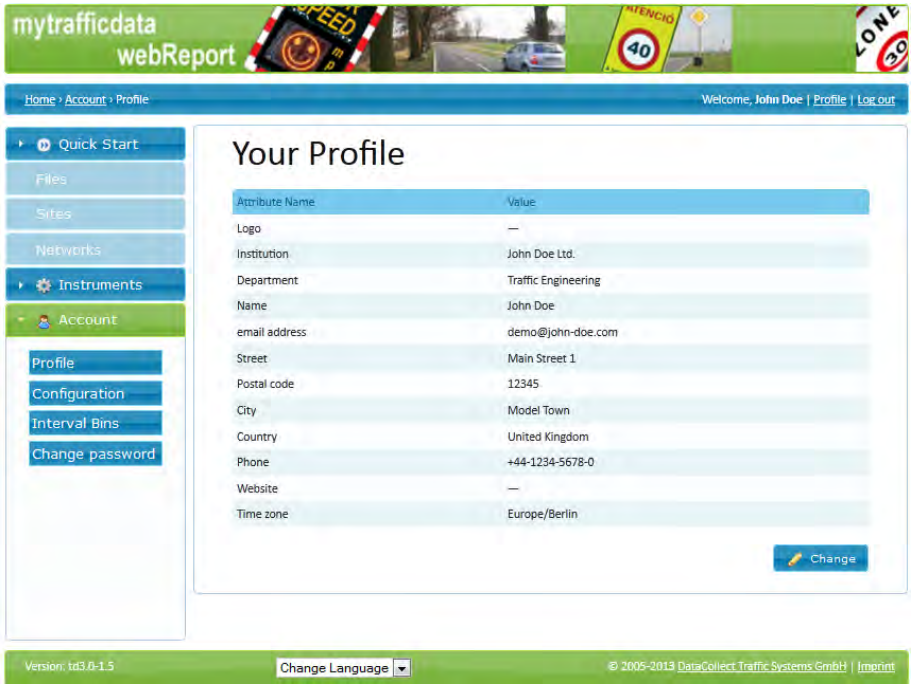
John Doe Ltd.: DSD 1 powered by datacollect

Time	Σ	10	20	30	40	50	60	70	80	90	100	110	>110	Vmin	Vmax	Vavg	V15	V50	V85	Vout
16/03/2013 00:00	3	0	0	2	1	0	0	0	0	0	0	0	0	22	35	28	22	29	35	26
16/03/2013 01:00	1	0	1	0	0	0	0	0	0	0	0	0	0	19	19	19	19	19	19	19
16/03/2013 02:00	1	0	0	0	1	0	0	0	0	0	0	0	0	35	35	35	35	35	35	35
16/03/2013 03:00	1	0	0	0	1	0	0	0	0	0	0	0	0	39	39	39	39	39	39	32
16/03/2013 04:00	3	0	1	1	1	0	0	0	0	0	0	0	0	20	36	27	20	25	36	26
16/03/2013 05:00	39	0	3	16	18	2	0	0	0	0	0	0	0	13	43	30	23	31	37	29
16/03/2013 06:00	41	1	0	24	14	2	0	0	0	0	0	0	0	10	44	29	23	29	36	28
16/03/2013 07:00	65	0	2	29	28	6	0	0	0	0	0	0	0	14	47	31	25	31	38	29
16/03/2013 08:00	62	0	0	24	30	8	0	0	0	0	0	0	0	21	49	33	28	32	40	30
16/03/2013 09:00	58	0	0	29	27	2	0	0	0	0	0	0	0	21	44	31	25	31	37	29
16/03/2013 10:00	60	0	2	27	30	1	0	0	0	0	0	0	0	17	45	30	26	31	37	29
16/03/2013 11:00	78	0	1	30	40	7	0	0	0	0	0	0	0	16	45	32	28	32	38	29
16/03/2013 12:00	82	0	3	32	35	12	0	0	0	0	0	0	0	17	48	32	27	32	40	30
16/03/2013 13:00	64	0	1	26	28	8	1	0	0	0	0	0	0	19	57	33	27	32	40	30
16/03/2013 14:00	61	0	3	18	33	7	0	0	0	0	0	0	0	15	48	33	27	34	39	30
16/03/2013 15:00	69	0	1	25	30	13	0	0	0	0	0	0	0	19	48	33	28	32	41	31
16/03/2013 16:00	79	0	1	29	40	8	1	0	0	0	0	0	0	19	52	33	28	31	40	29
16/03/2013 17:00	86	0	4	55	23	4	0	0	0	0	0	0	0	17	49	28	22	28	34	27
16/03/2013 18:00	69	0	4	29	28	7	1	0	0	0	0	0	0	15	53	31	25	31	38	29
16/03/2013 19:00	48	0	2	22	19	5	0	0	0	0	0	0	0	19	49	31	25	31	39	29
16/03/2013 20:00	18	0	0	6	10	2	0	0	0	0	0	0	0	22	49	32	23	34	39	30
16/03/2013 21:00	28	0	0	20	8	0	0	0	0	0	0	0	0	21	38	27	22	26	35	27
16/03/2013 22:00	9	0	0	2	6	1	0	0	0	0	0	0	0	24	41	32	30	32	39	31
16/03/2013 23:00	5	0	0	2	1	2	0	0	0	0	0	0	0	26	47	34	26	32	47	33

[Sat, 16 March]	Σ	10	20	30	40	50	60	70	80	90	100	110	>110	Vmin	Vmax	Vavg	V15	V50	V85	Vout
00:00-06:00	48	0	5	19	22	2	0	0	0	0	0	0	0	13	43	29	23	31	37	29
06:00-09:00	168	1	2	77	72	16	0	0	0	0	0	0	0	10	49	31	25	31	39	29
15:00-19:00	303	0	10	138	121	32	2	0	0	0	0	0	0	15	53	31	25	31	38	29
06:00-22:00	969	1	24	425	424	92	3	0	0	0	0	0	0	10	57	31	26	31	38	29
00:00-24:00	1030	1	29	448	452	97	3	0	0	0	0	0	0	10	57	31	25	31	38	29

15 Account management on www.myTrafficData.com

15.1 Profile

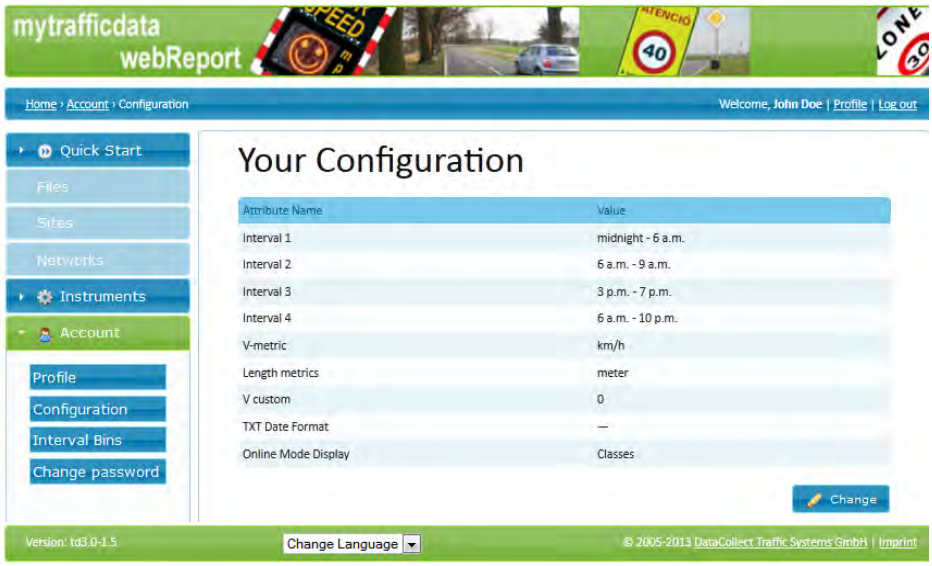


Here you will find your personal details and information on your organisation. This information is displayed in each generated report.

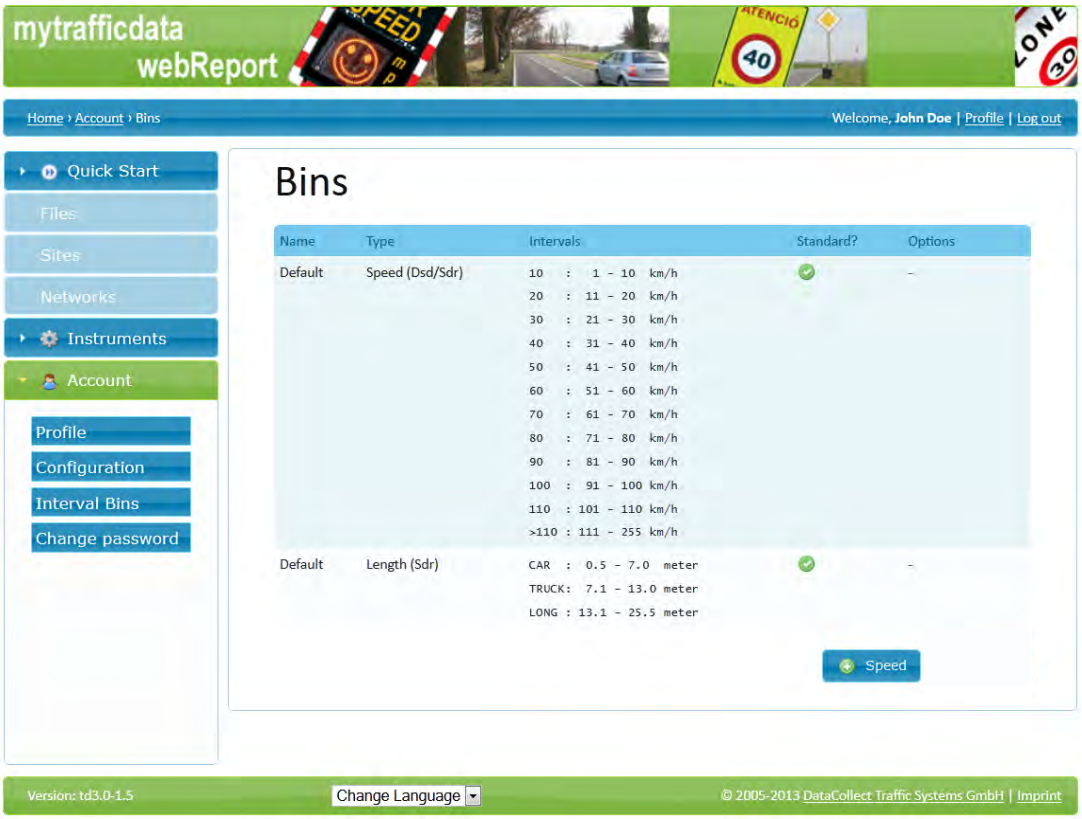
15.2 Configuration

Here you can change over between km/h and mp/h for the evaluation.

Furthermore you can specify another aggregate under **user-defined analysis value**, which you can then select for evaluation. Example: 35 for v35.

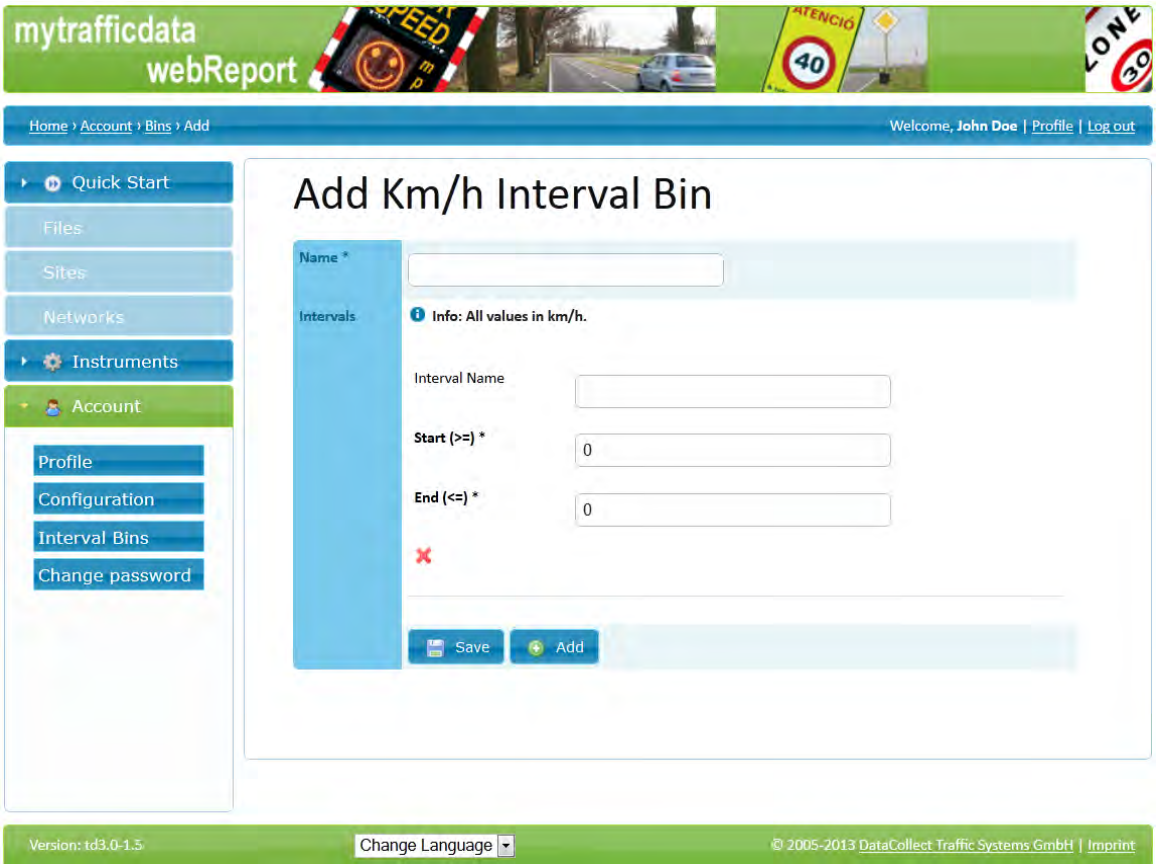


15.3 **Bins**



Standard class sets are available. You also have the possibility of creating new class sets or of editing or deleting existing ones.

In order to create a new class set, please click on the respective button **+Speed.**



In this form you can create a new division for the table of the **speed class** and the **speed class histogram**.

Example: You want all vehicles between 30 and 50 km/h to be considered. For this, enter at **Start (>=)** the figure 30 and at **End (<=)** the figure 50. When you now select you created class set in the WebReport, only those vehicles between 30 and 50 km/h in the **speed class table** and in the **speed class histogram** are displayed. (Standard would be 0-9 km/h, 10-19km/h 20-29km/h etc.)

As soon as you have entered the values for the first interval, you will be given the opportunity to enter another interval.

One class set can comprise a **maximum of 12 intervals**.

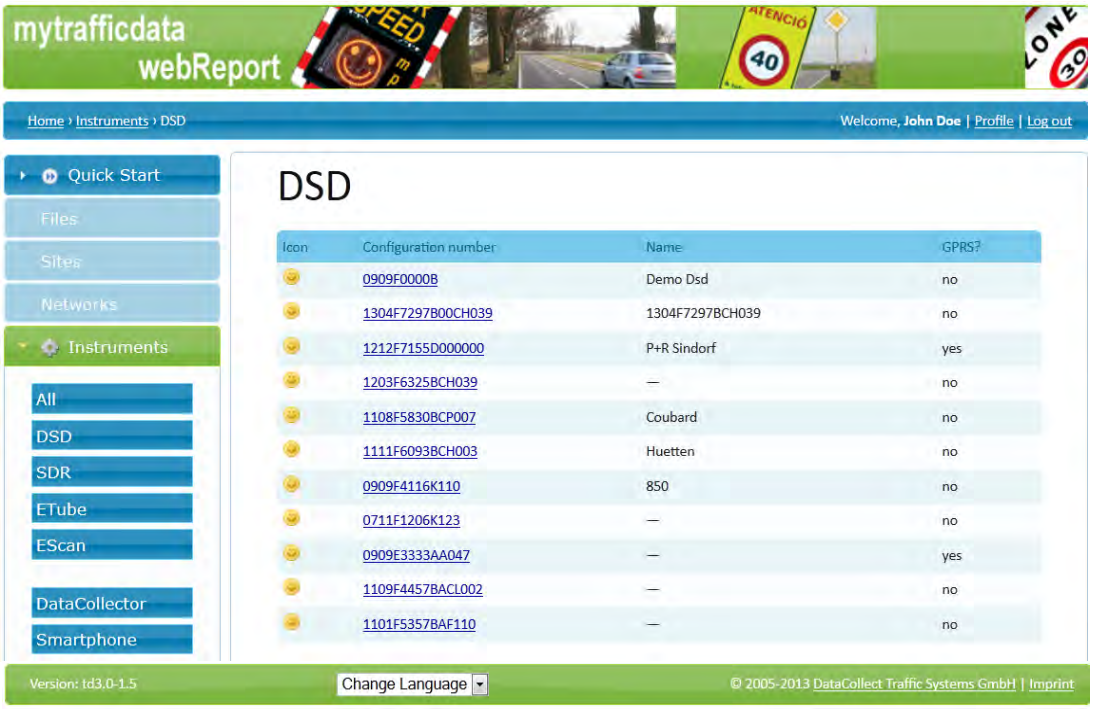
15.4 **Change password**

Here you can change your password for your www.myTrafficData.com access.

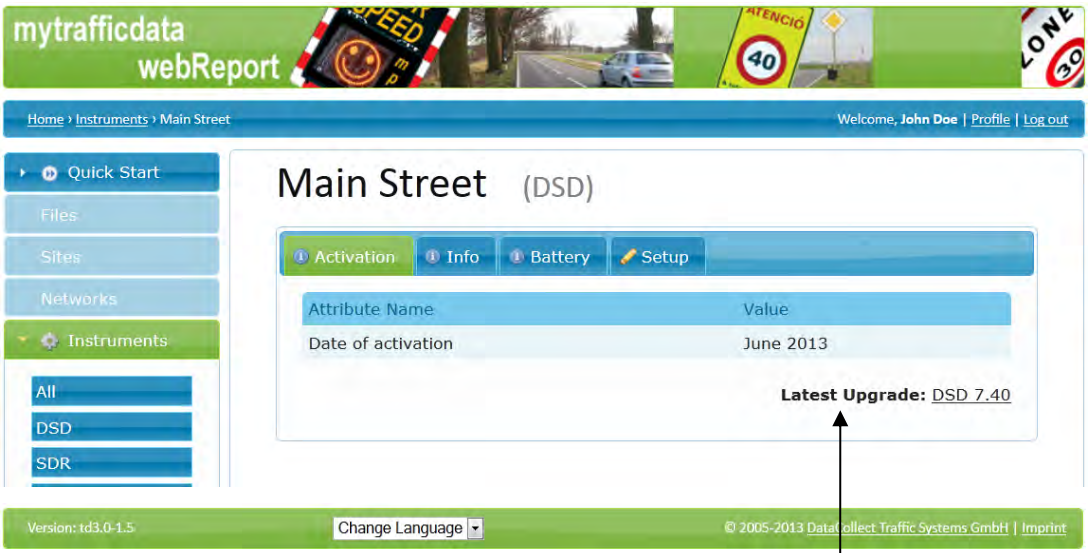
16 Flashupgrade

If a softwareupgrade is available, your DSD Gen.3 can be upgraded by DataCollector .

After your order of the softwareupgrade an „Upgrade File“ will be provided for you on www.myTrafficData.com. Therefore login on the Internet with your access data to www.myTrafficData.com and click on the item **Devices** in the menu bar on the left-hand side of the screen. A sub-menu opens up. Click on DSD.

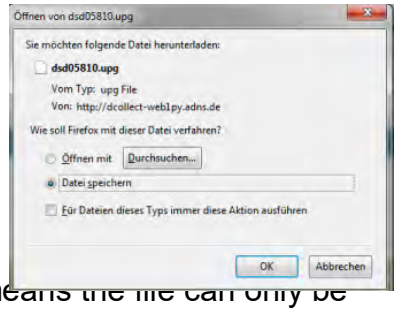


Now choose the requested device.



Now click on the latest **Upgrade**.

After having clicked on **Update** you can directly **save** the Upgrade-File on the SD Card. Now insert the SD Card into the DataCollector and now you can transfer the Upgrade on to your DSD.



Caution! Please note the the Upgrade-File is device-related. That means the file can only be transferred by DataCollector to the corresponding DSD.

Transfer of the Upgrade-file to the DSD by DataCollector

Press the button **Get Data (button overview on page 11)**
After the successful completion of the intro the white LED of the Get Data button prompts you to press it by flashing. Hereby the following steps will be processed:

Press the button **Get Data:**

(i) Scan for *Bluetooth*® compatible DSD. This scan process takes is visualised by fast flashing of the *Bluetooth*® LED. As soon as *Bluetooth*® contact to a device exists, the fast flashing of the LED changes to a continuous light.

(ii) Communication establishment to the connected device ⏩ ***Bluetooth*® - LED** flashes slowly.

(iii) Now the Upgrade-file is transferred to your DSD. This process is visualised by a flashing of the now red SD Card LED as well as a followed flashing of the now red *Bluetooth*® LED. As soon as the process is completed the green Battery LED lights up. Your DataCollector now shuts up automatically.

The successful transfer will be visualised by the code „100“ on your DSD. In case of an error your DSD shows the code „EE“ we ask you to contact our support: support@datacollect.com.

Do not disconnect the device from the power supply during the Upgrade process! The max. distance, by visibility, between DataCollector and DSD is 10m.

17 Technical data of the DataCollector

Technical data	DataCollector Version 1.X
Bluetooth® (Support from DSD Version 6.0!)	Class1
Range (vision contact) [m]*	80
Baud rate [bit/s]*	115200
Download time @ 10,000 vehicles [min]*	n·0.25+0.5
Download time with full DSD memory [min]*	2,2
Number of downloads (with fully charged power supply)*	250
Range (Bluetooth®) [m]*	
head-on	80
right	50
left	50
Back	50

*Provided there is free vision contact

18 Technical data of the DSD

Technical data	Value
Sensor:	Microwave, 24.125GHz, output power 5mW, France: Limited to at least. 24.075GHz / typ. 24.125GHz / max. 24.175GHz United Kingdom: Limited to at least. 24.075GHz / typ. 24.125GHz / max. 24.250GHz
Speed measuring range:	3-199km/h or 2-130mph
Resolution:	1km/h
Range:	min 80m; typ. 100m; max 120m **@ Standard Testing Conditions for passenger cars**
Weight DSD	7.5kg
Ambient temperature:	-20°C to + 50°C
Housing:	ASA Luran S 757G
Case dimensions (WxHxD):	527 x 806 x 82 mm
Units:	Metrical or Imperial
Memory:	512kB (RAM buffered)
Data format standard	binary
Data format optional:	v entry / v exit, date, time (single car)
Setting:	By means of myTrafficdata (Setup) and DataCollector
Data rate:	up to 115200Baud
Bluetooth® radio range:	DSD – DataCollector: Head-on up to 80m (visual contact)

19 System requirements for www.myTrafficData.com

In order to ensure pleasant working with www.myTrafficData.com, you should use one of the following browsers:

- **Google Chrome** (at least version 78.0)
- **Firefox** (at least version 70.0)
- **Internet Explorer** (at least version 10.0)

The following functions should be activated in your browser settings:

- **JavaScript** (used for the interactive interface)
- **Cookies** (used for login sessions)

Furthermore, the use of one of the following operating systems is recommended:

- Microsoft Windows (at least XP)
- Ubuntu (at least version 10.0)
- Mac OSX

20 Frequently Asked Questions (FAQ)

General FAQs

1. **Question:** I have registered with www.myTrafficData.com, but have not yet received a password.

   Answer: Our employees must first enable you on www.myTrafficData.com. The password will then automatically be sent to you by mail.

2. **Question:** www.myTrafficData.com is not being correctly displayed.

   Answer: You have selected a secure connection to www.myTrafficData.com. You will recognise this by the s in http**s**://www..... . In order to correctly display the website you must allow the display of mixed contents via your browser. If you do not need a secure connection, then please delete the “s” from https at the beginning of the Internet address.

3. **Question:** There are several files with measured data on my SD card – which is the right one?

   Answer: The measured data is named after the name of the measuring point. If a file with that name should already exist, further data is consecutively numbered.

   Example: Mainstreet.dsd and Mainstreet1.dsd

FAQ DataCollector

1. **Question:** My DSD is not displayed under Devices.

   Answer: Make sure that you have activated your DSD properly on www.myTrafficData.com.

2. **Question:** Can I save setup files for several DSDs at the same time on the SD card?

   Answer: Yes. As the setup files are device-specific, it is ensured that the right file is always transferred.

3. **Question:** My data is not saved on the SD card!

   Answer: Please check whether the SD card was inserted correctly in the DataCollector. The SD card must be inserted with the printed side facing down and it must completely disappear within the DataCollector.

4. **Question:** The SD Card of the DataCollector is not writable!

   Solution: Format the SD Card with the DataCollector (see User Manual DataCollector - Chapter – 15.1)

5. **Question:** A b*luetooth*® connection to the DSD/DSD ist not possible!

   Solution: Delete the internal *bluetooth*® memory (see User Manuel Chapter – 15.2). Should the problem still persist please contact our Support: support@datacollect.com

6. **Question:** Upon activation, the message Activation file expired appears.
   Answer: The time from DSD is wrong. Reset the time of the datacollector / smartphone.

21 Disposal

Please dispose of this product at the end of its service life in accordance with the valid statutory requirements and make use of the return system for used batteries.

22 Protective rights

The following trade name and patent rights of DataCollect Traffic Systems GmbH are available for this product range:

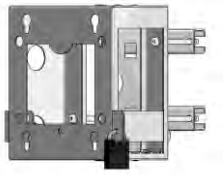
Logo DataCollect

DataCollect

Safety 1®

Safety 2®

Mast holder



23 Certifications

23.1 FCC and IC

This device complies with Part 15 of the FCC Rules [and with Industry Canada licence-exempt RSS standard(s)].

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by (DataCollect Traffic Systems GmbH) may void the FCC authorization to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Radiofrequency radiation exposure Information:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 100cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC ID: 2AEOTDSDG5

IC ID: 20402-DSDG5

23.2 EC Declaration of Conformity

The Declaration of Conformity is found on the last page of the manual.

For legal reasons we would like to point out that in the event of any modifications made to the product by the user will not only void all warranty claims, but also that, among other things, the properties assured in the Declaration of Conformity are no longer fulfilled.

EG-Konformitätserklärung
Declaration of Conformity EC

Hersteller: *Manufacturer:*	**DataCollect Traffic Systems GmbH** **Heinrich-Hertz-Straße 1** **50170 Kerpen**
Produkt: *Product:*	**Geschwindigkeitsanzeige Display** ***Digit Speed Display***
Typ: *Type:*	**DSD Gen.5 (Radar/Bluetooth)**
Artikelnummer: *Item number:*	**DSD Gen.5 ohne TA (7100-0100 / 7100-0101 / 7100-0104 / 7100-0105)** **DSD Gen.5 mit TA (7100-0102 / 7100-0103 / 7100-0106 / 7100-0107)**

mit den Vorschriften folgender Europäischer Richtlinien übereinstimmt:

complies with the requirements of the European Directives:

RED 2014/53/EU

Hiermit wird bestätigt, dass das oben bezeichnete Produkt den Schutzanforderungen der aufgeführten Richtlinien entspricht.

It is herewith confirmed that the above mentioned product complies with the requirements of the mentioned EU Directives.

Folgende Normen wurden herangezogen:

The following standards were applied:

EN 61000-6-3:2007 + A1:2011
Emission EN 301 489-1 V2.1.1
Emission EN 61000-6-2:2005
EN 301 489-1 V2.1.1
EN 62479:2010
EN 62368-1:2016

Diese Erklärung wird verantwortlich abgegeben durch:

This declaration is submitted by:

datacollect
Traffic Systems GmbH
Heinrich-Hertz-Str. 1
50170 Kerpen-Sindorf
Tel.: +49 (0) 2273-59560
Fax: +49 (0) 2273-595623

Kerpen, Datum 01.10.2019 Unterschrift

General Manager Mario Lippoldt

EG-Konformitätserklärung
Declaration of Conformity EC

Anhang
Annex

Allgemeine nationale Hinweise (Einschränkungen)
General national Information (Restrictions)

Bewegungsmelder Movement Detection	24,05 – 24,25GHz 24.05 – 24.25GHz

Land Country	Einschränkung Restriction
Frankreich France	Begrenzt auf min. 24,075GHz / typ. 24,125GHz / max. 24,175GHz Limited to min. 24.075GHz / typ.24.125GHz / max. 24.175GHz
Vereinigtes Königreich United Kingdom	Begrenzt auf min. 24,150GHz / typ. 24,200GHz / max. 24,250GHz Limited to min. 24.150GHz / typ. 24.200GHz / max. 24.250GHz

DataCollect Traffic Systems GmbH
Heinrich-Hertz-Str. 1
50170 Kerpen
Germany

Tel.: +49(0)2273 5956 – 0
Fax: +49(0)2273 5956 – 23
E-mail: info@datacollect.com
www.DataCollect.com
www.myTrafficData.com