

Article: F3x DGA	Version: V1.0	Page: 2
Author: Awron GmbH	Date: 10.03.2014	

Table of contents

F3xDGA Table of contents

Modell support	S.3
Product description	S.4
System components	S.5
Operating concenpt	S.13
key functions	S.13
Sprint function	S.15
Quarter mile function	S.16
Software update	S.17
Purchased parts package	S.18
Technical data	S.19

Article: F3x DGA	Version: V1.0	Page: 3
Author: Awron GmbH	Date: 10.03.2014	

Modell support

F3xDGA 3 F-Series



Article: F3x DGA	Version: V1.0	Page: 4
Author: Awron GmbH	Date: 10.03.2014	

Product description

F3xDGA Product desription

Measurement data display:

- Boost pressure
- Tourque
- Performance
- Leistungsdiagramm
- Lateral and Longitudinal accelaration
- Sprint
- · Quarter of a mile
- Lambda values and exhaust gas temperature
- Rail pressure and fuel pressure
- Maximum values

Visually, the display fits perfectly into the Interior. The monitor, which is equipped with latest OLED technology is incorporated into the existing ventilation shaft. Thus, no external holders are necessary, and you have a good view of the displays while driving.

To operate the Displaysystem, you just have to use the steering wheel buttons. Thus, control of the vehicle by the driver is always maintained.

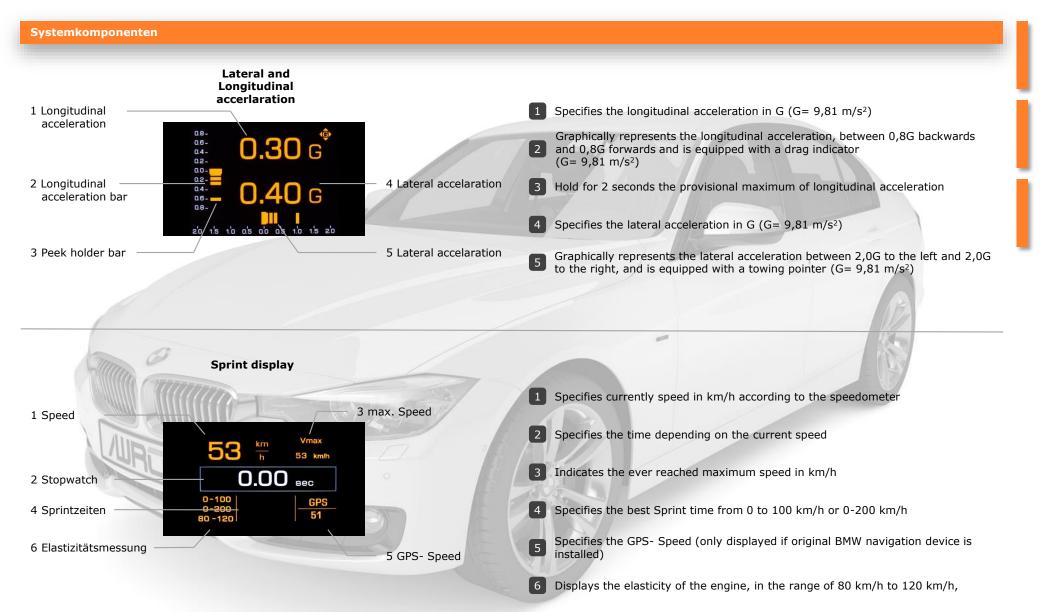
Article: F3x DGA	Version: V1.0	Page: 5
Author: Awron GmbH	Date: 10.03.2014	



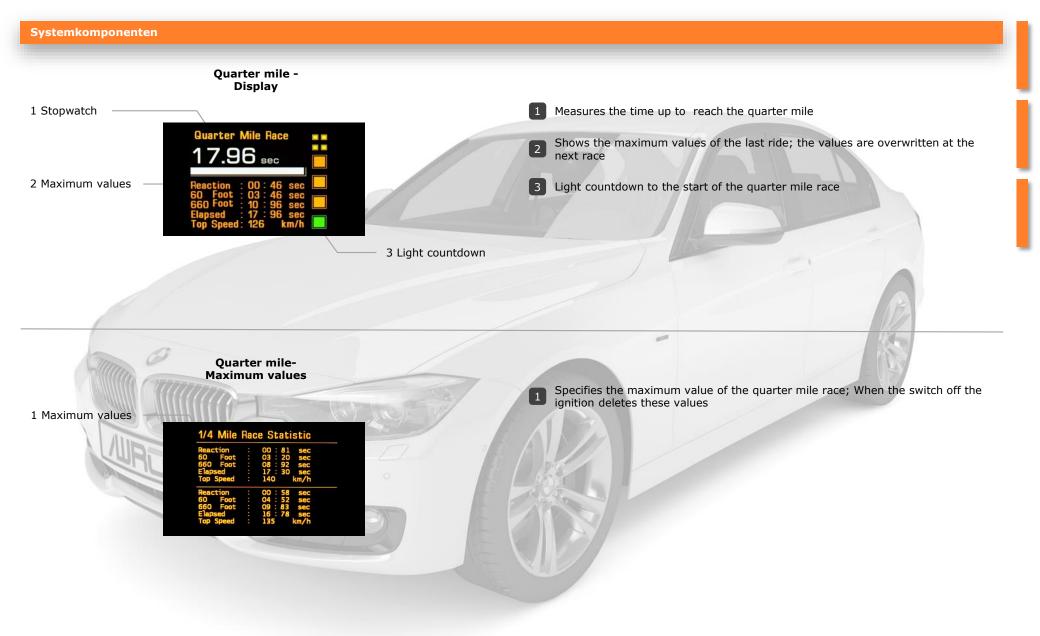
Article: F3x DGA	Version: V1.0	Page: 6
Author: Awron GmbH	Date: 10.03.2014	

System components **Performance display** Indicates the current battery voltage 1 Battery voltage 3 Peek holder bar 1 13.2 V Represents the power between 0 and 400 PS and is equipped with a peek holder 2 bar 2 Power bar 4 Power Holds the early maximum of loading pressure for 2 seconds 89 ps 3 70 °C ₫ Specifies the power digital between 0 to 400 PS 4 5 Cooling water 6 Temperature of the gear 5 Specifies the current cooling temperature in °C temperature Specifies the temperature of the gear, between - 40 °C and 150 °C 6 -**Performace chart** Graphically represents the power 1 3 Torque graph Specifies the power digital between 0 and 500 hp; the provisional maximum 2 POWER - TORQUE GRAPH value is kept Graphically represents the torque 3 1 Power Specifies the torque digital between 0 an 600 Nm; the provisional maximum 4 value is kept 151_{PS} 575 Nm 4 Torque 2 Power

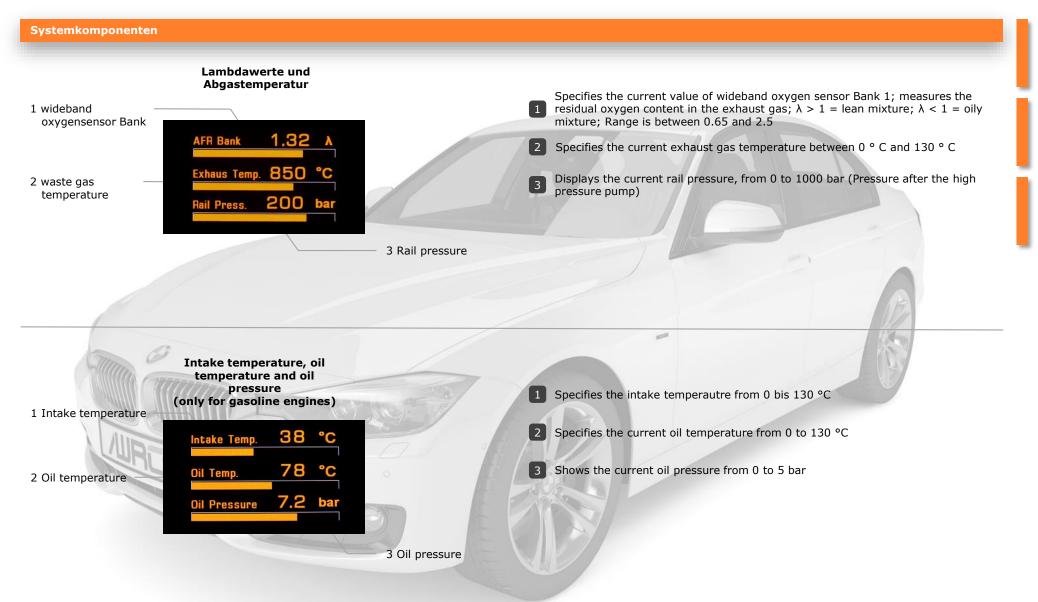
Article: F3x DGA	Version: V1.0	Page: 7
Author: Awron GmbH	Date: 10.03.2014	



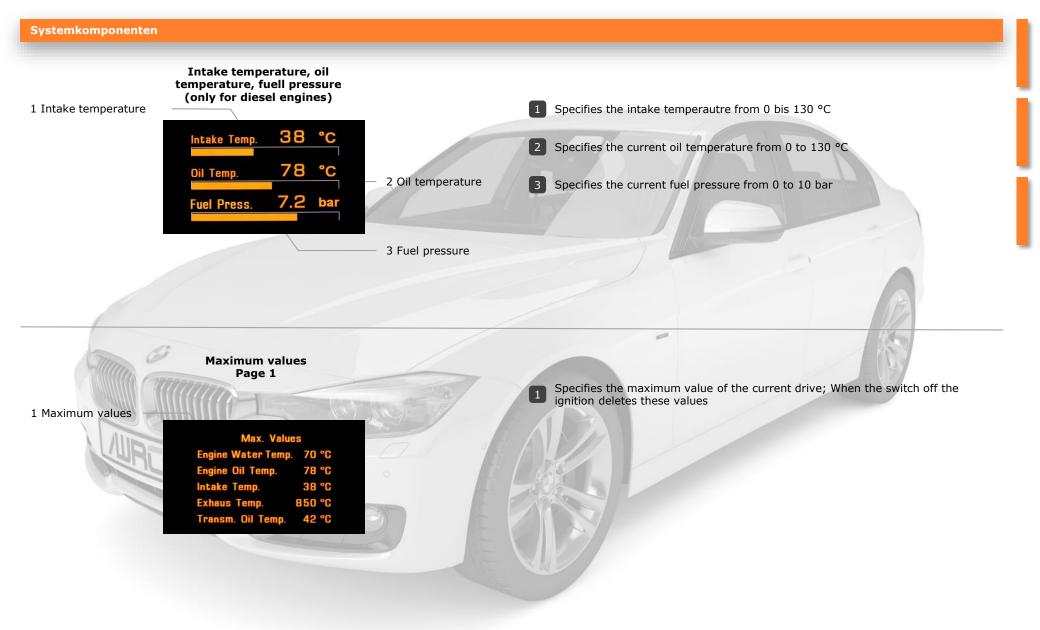
Article: F3x DGA	Version: V1.0	Page: 8
Author: Awron GmbH	Date: 10.03.2014	



Article: F3x DGA	Version: V1.0	Page: 9
Author: Awron GmbH	Date: 10.03.2014	



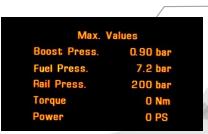
Article: F3x DGA	Version: V1.0	Page: 10
Author: Awron GmbH	Date: 10.03.2014	



Article: F3x DGA	Version: V1.0	Page: 11
Author: Awron GmbH	Date: 10.03.2014	

Systemkomponenten

Maximum values Page 2 (only for diesel engines)



1 Maximum values



Specifies the maximum value of the current drive; When the switch off the ignition deletes these values

Maximum values Page 2 (only for gasoline engines)

1 Maximum values

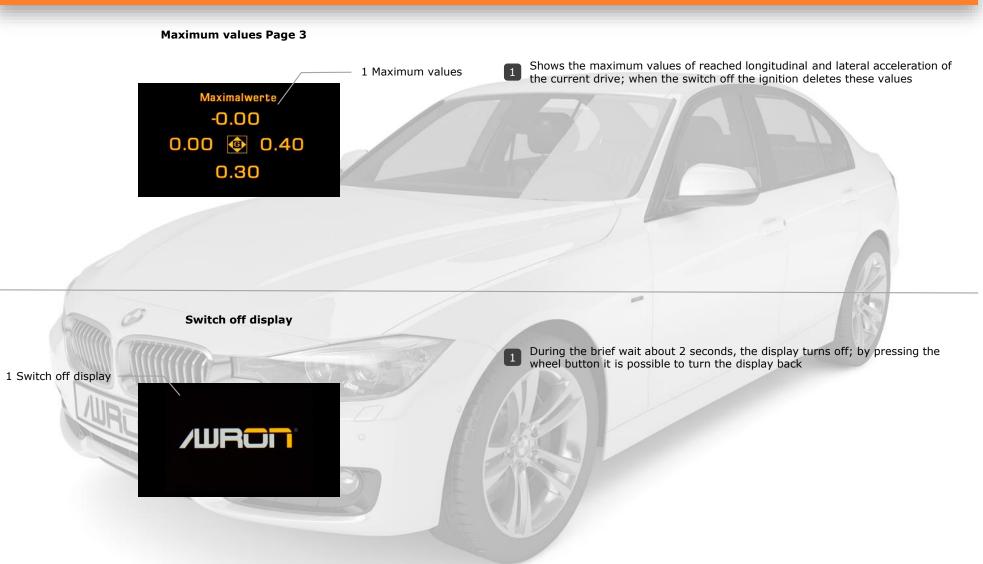
Max. V	alues
Boost Press.	0.90 bar
Oil Press.	7.2 bar
Rail Press.	200 bar
Torque	0 Nm
Power	0 PS

1 Shows the maximum values of reached longitudinal and lateral acceleration of the current drive; when the switch off the ignition deletes these values

-

Article: F3x DGA	Version: V1.0	Page: 12
Author: Awron GmbH	Date: 10.03.2014	

Systemkomponenten



Article: F3x DGA	Version: V1.0	Page: 13
Author: Awron GmbH	Date: 10.03.2014	

F3xDGA Key functions

The display F3xDGA is operated above the already existing rocker switch on the steering wheel of speed control. If the cruise control is switched off, you can switch back and forth between the individual system components.

When the cruise control is on, the display remains in the last active screen and the rocker switch assumes their original function. This allows an easy handling and ensures the control of the vehicle by the driver.

Changing of system components:

To switch between the individual system components suffice a light tap on the rocker switch up or down. This allows a scroll forwards and backwards.

To enter the settings menu, press the rocker switch fully upwards and hold this position for 2 seconds (see next page).





Article: F3x DGA	Version: V1.0	Page: 14
Author: Awron GmbH	Date: 10.03.2014	

F3xDGA Key function

To change settings, move the rocker switch to bottom until one has arrived at the desired setting. Move the rocker switch above to confirm or to change the setting.(E.g. switching from km/h to mph).

Move the rocker switch on "Back" to exit the setting menu, and confirm again.

Change options:

- Volume
- Dimming
- German to Englisch
- km/h to mph
- °C / bar to °F / psi



Article: F3x DGA	Version: V1.0	Page: 15
Author: Awron GmbH	Date: 10.03.2014	

F3xDGA Sprint function

The sprint display is operated only by the driving style of the driver. So they are not any external buttons for the operation necessary.

In the stand is the stopwatch, as well as the speed to 0. As soon as the driver accelerated the timing begins. For the first measurement, from 0 to 100 km/h, the driver will have 15 seconds. If the driver is not able to accelerate to 100 km/h, the measurement stops and the timer goes back to 0. Is the driver able to accelererate to 100 km/h, the second measurement from 0 to 200 km/h begins.

For this speed the driver has 10 more seconds, so 25 seconds to speed up to 200 km/h.

In addition conducted an elasticity measurement between 80 km/h and 120 km/h. The time reached at full throttle are indicative of the elasticity of the motor.

The maximum achieved times are stored and displayed at the bottom of the display. As well the reached maximum speed is shown in the upper right area of the screen.

These stored maximum values are automatically replaced by new highs. If an original BMW navigation system is installed, the current GPS-speed is represented in the lower-right corner of the screen.

To clear the peak values, only the option "Memory delete" must be selected in the Setup menu.



Article: F3x DGA	Version: V1.0	Page: 16
Author: Awron GmbH	Date: 10.03.2014	

Bedienkonzept

F3xDGA Quarter mile display

The quarter mile display is operated only by the driving style of the driver. So they are not any external buttons for the operation necessary.

In the stand is the stopwatch to 0. Now the rider has 10 seconds to prepare for the race. This is symbolized by the cube, which can be seen instead of the white bar and gradually disappear.

So the light countdown started in the right of the screen. In the light of green and past cube the driver has 3 seconds time to go. He does not, or he starts too late, the measurement is interrupted.

If the start is succesfully the reached values entered.

- Reactiontime
- Time for 60 Foot (ca. 18,3 m)
- Time for 660 Foot (ca. 201,2 m half line)
- Time for quarter mile (ca. 402.4 m)
- Top Speed

These values are displayed as long as until a new measurement begins.



Article: F3x DGA	Version: V1.0	Page: 17
Author: Awron GmbH	Date: 10.03.2014	

F3xDGA Software update

Software updates are available for the operating systems Windows XP and Windows 7. Required software is available for download at Awron.de. Then the computer has to be connected with the display system via USB and the required driver software installs itself automatically. The software file must only be opened, and the update starts automatically.	► E90DGA V2.0	Update start.	
	BL: 2.00	App: 2.10	SN: XXXXXXXXX

Article: F3x DGA	Version: V1.0	Page: 18
Author: Awron GmbH	Date: 10.03.2014	

Display system

Cabel harness

Purchased parts package

F3xDGA Purchased parts package

Purchased parts package

- Display system
- Cable harness incl. USB connection
- Operating instructions

This purchased parts package ensures an assembly true the motto of "plug and play".

The wiring harness is connected directly to the can bus, which ensures a precise data transmission.

Article: F3x DGA	Version: V1.0	Page: 19
Author: Awron GmbH	Date: 10.03.2014	

£ 94°C ₅£ 73°C

Technical data

F3xDGA Technical data

Display

•OLED display 320 x 240

Cutting point

- CAN Bus 500 KBit
- USB cutting point for Software update

Case

•Plastic, original BMW air grille

Size (length x width x depth)

• 310 mm x 80 mm x 120 mm

Weight

• 300g