Programming the brakes;

Before you can program the trailer brakes you need the following data.

- 1. Weight of the trailer axle unloaded.
- 2. Value of the load sensor unloaded.
 - a. With potentiometers the <u>total</u> resistance in ohms.
 - b. With angle sensors the <u>average</u> value in mA.
 - c. With Pressure sensor the value in mA.
- 3. Weight of the trailer axle loaded.
- 4. Value of the load sensor loaded.
 - a. With potentiometers the <u>total</u> resistance in ohms.
 - b. With angle sensors the <u>average</u> value in mA.
 - c. With Pressure sensor the value in mA.
- DWR Dynamic Wheel Radius in mm, see the specifications of the tire. These tire specifications are available from your tire supplier and if not available: Calculated by the following formula to be used; DWR = track length of the tire X 0.159

These data are essential for the optimal functioning of the brakes.

If you have all information you can go ahead and connect the BCU to the computer and follow the next steps, always ensure that you do this accurately because this is essential for the proper functioning of the brake.

Step 1.

Install the supplied software on a laptop with a Windows [™].

Step 2.

Connecting the brake controller.





Unscrew the plug from the brake controller and connect the brake controller to the computer with the USB cable.



Set the brake controller level.

Step 3.

After installing the software and connecting the USB cable, go ahead.

	🔚 BrakeControl 1.0.0.11		
10.		-	
	Connect brake controller		
*		1	
	Setup wizard		

> Click - CONNECT BRAKE CONTROLLER



> Click - SETUP WIZARD

	💀 BrakeControl 1.0.0.11		
-	Identification		
	V.I.N. Company Name Date		
	Next	Cancel	

Enter the requested information;

VIN: chassis number of the vehicle where the brake system is fitted.

Company: Name of the company that are installing

Name: Name of the person performing the installation

Date: date of installation

> Click - NEXT

	🖶 BrakeControl 1.0.0.11	
-	BrakeType	
- A-	Brake type	
	Dexter DXQ one axle electric brake	•
	Kodiac 225 Disc brake two axle	
	Knott 25-4303 Drum brake two axle	
	Dexter DXQ two axle electric brake Dexter DXQ one axle electric brake	
	Device DAX one axic electric brake	
- The second second		1
	Previous Next Ca	ancel
		//

Select the correct brake type in the menu.

	💀 BrakeControl 1.0.0.11	×
-	BrakeType	
	Brake type	
	Dexter DXQ one axle electric brake	San and
	Dynamic wheel radius [mm]	
	350	
		the sector
	Previous Next Cancel	
A REAL PROPERTY.		

Enter the Dynamic Wheel Radius, in millimetres, please note this is different for each tire and each brand / type.

Your tire dealer can provide this information.

> Click - NEXT

Now all the basic information is entered into the program and the type of brakes are selected, we continue with the selection of the load sensors of the braking system.

There are 4 choices in terms of load sensors, make sure that you choose the correct one for the safety of your braking system.

Option 1. - NO LOAD SENSORS (only trailers with a fixed weight)

Option 2. - Potentiometers

Option 3. - Pressure sensor (air)

Option 4. – Angle sensor

Option 1.

You have no cargo sensors because the trailer does not vary in weight, you can choose this option only if the trailer has a fixed weight.

You have only have to enter	[·] the Total axle	weight of the t	railer to progr	am the brak	е
system.					

Axle load sensor			
	mass [kg]	No sensor	Load sensor
Minimum			None
Maximum			C Potmeter
Actual			C Pressure
		1	 Angle
Previous	s Cancel	Update brake controller	
		controller	

Select in the menu LOAD SENSOR> "none" and enter the total weight of the trailer in kilograms> MASS (kg) on the left of the screen.

> Click - UPDATE BRAKE CONTROLLER

Your braking system is configured without load sensors.

Option 2.

You load sensors are potentiometer sensors.

You need the following information before the system can be programmed;

- Minimum empty weight of the trailer axles (unloaded axle weight)
- Maximum loaded weight of the trailer axles (loaded axle weight)
- Ohm-value of the two potentiometers together when empty (unloaded axle weight)
- Ohm-value of the two potentiometers together loaded (loaded axle weight)
- Ohm-value of the two potentiometers together in its current condition at the time of programming of the brake controller.

mass [kg]		Resistance [kOhm]	Load sensor
1 Ainimum		3	⊂ None
/laximum			 Potmeter
Actual			C Pressure
		1	 Angle
Previous	Cancel	Update brake controller	

Select in the menu LOAD SENSOR> potentiometer and then enter the minimum weight (unloaded axle mass) in kilograms of the trailer and the maximum weight (axle mass loading)> MASS (kg) on the left of the screen.

Then enter in RESISTANCE (Ohms) in the previously measured values. Minimum resistance - ohm value of the two pots together unloaded.

Maximum Resistance - ohm value of the two pots together loaded.

Actual resistance - ohm value of the two pots together at the time of reprogram the brake controller

> Click - UPDATE CONTROLLER BRAKE

Your braking system is now configured with potentiometers and load sensors.

Option 3.

You have a pressure sensor as a load sensor. You need the following information to the system can be programmed;

- Minimum empty weight on the trailer axles
- Maximum loaded weight on the trailer axles
- mA-value (Milliampere) of the pressure sensor when empty
- mA-value (Milliampere) of the pressure sensor loaded
- mA-value (Milliampere) of the pressure sensor in present condition at the time of reprogram the controller.

mass [kg]		Current [mA]	Load sensor
1inimum			⊂ None
1aximum			⊂ Potmeter
ctual			Pressure
			 Angle
Previous	Cancel	Update brake controller	

Select in the menu LOAD SENSOR> PRESSURE and then enter the minimum weight (unloaded axle mass) in kilograms of the trailer and the maximum weight (axle mass loading)> MASS (kg) on the left of the screen.

Then enter in CURRENT (mA) in the previously measured values.

Minimum current – mA (Milliampere) value of the pressure sensor unloaded Maximum Current – mA (Milliampere) value of the pressure sensor loaded Actual Current - mA (Milliampere) value of the pressure sensor at the time of reprogram the brake controller

> Click - UPDATE BRAKE CONTROLLER

Your braking system is configured with a pressure sensor as a load sensor.

Option 4a.

You have **<u>two</u>** Angle sensors as a load sensor.

You need the following information to the system can be programmed;

- Minimum empty weight on the trailer axles
- Maximum loaded weight on the trailer axles
- average value mA (Milliampere) of the two angle sensors when empty
- average value mA (Milliampere) of the two angle sensors when full loaded
- Average value mA (Milliampere) of the two angle sensors when empty in present condition at the time of reprogram the controller.

mass [kg]		Current [mA]	Load sensor
1inimum			⊂ None
1aximum			⊂ Potmeter
(ctual			C Pressure
			Angle
Previous	Cancel	Update brake controller	

Select in the menu LOAD SENSOR> ANGLE and then enter the minimum weight (unloaded axle mass) in kilograms of the trailer and the maximum weight (axle mass loading)> MASS (kg) on the left of the screen.

Then enter in CURRENT (mA) in the previously measured values. Minimum current – average mA (Milliampere) value of the angle sensor unloaded Maximum Current – average mA (Milliampere) value of the angle sensor loaded Actual Current – average mA (Milliampere) value of the angle sensor at the time of reprogram the brake controller

> Click - UPDATE BRAKE CONTROLLER

Your braking system is configured with a pressure sensor as a load sensor.

The green light (level) on the brake controller will either light continuously or blink in both cases is good, because this has to do with the sensitivity of the level sensor in it.

Option 4b.

You have <u>one</u> Angle sensor as a load sensor. You need the following information to the system can be programmed;

- Minimum empty weight on the trailer axles
- Maximum loaded weight on the trailer axles
- mA-value (Milliampere) of the Angle sensor when empty
- mA-value (Milliampere) of the Angle sensor loaded
- mA-value (Milliampere) of the Angle sensor in present condition at the time of reprogram the controller.

mass [kg]		Current [mA]	Load sensor
1inimum			⊂ None
1aximum			⊂ Potmeter
ctual			Pressure
			 Angle
Previous	Cancel	Update brake controller	

Select in the menu LOAD SENSOR> **PRESSURE** (not ANGLE) and then enter the minimum weight (unloaded axle mass) in kilograms of the trailer and the maximum weight (axle mass loading)> MASS (kg) on the left of the screen.

Then enter in CURRENT (mA) in the previously measured values. Minimum current – mA (Milliampere) value of the angle sensor unloaded Maximum Current – mA (Milliampere) value of the angle sensor loaded Actual Current - mA (Milliampere) value of the angle sensor at the time of reprogram the brake controller

> Click - UPDATE BRAKE CONTROLLER

Your braking system is configured with a angle sensor as a load sensor.

WARNING

CAUTION:

NEVER GO ON THE PUBLIC ROADS WITH A TRAILER WHICH HAS NOT BEEN PROGRAMMENEND BECAUSE THE BREAKS WILL POSSIBLY NOT FUNCTION PROPERLY.

IF YOU DO, LIFE-THREATENING SITMATIONS COULD ARISE.

When the trailer has been parked for a long period of time always check that the brakes are functioning properly before going on public roads.

If any items are not functioning properly and / or have to be replaced, please use original parts only.

Ignoring this warning can lead to serious accidents or even death.