

A2C Sensor Utility software



Manual for A2C Sensor Utility Software

Version 1.02 12/11 2013

Document tracking control

VERSION	SECTION	CHANGED BY	DATE	CHANGE
1.00	All	JL	01-06-2013	Initial Version
1.01	All	JL	07-11-2013	
1.02	All	JL	12-11-2013	

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1 Installation

- 1. Make sure that you have installed the U2C driver first. Get the guide here: U2C Manual.pdf
- 2. Download the program: <u>A2C Sensor Utility.zip</u>
- 3. Unzip and run Setup
- 4. Launch the program from the start menu.

The screen below will be shown at start up. Make sure that the U2C is connected to the computer.



If the U2C cannot be found the program will show the following:



Hovering the mouse over buttons will show a short description of what the button does



Choose a sensor to configure in the tool bar



If choosing the A2C-TRI

File Sensor Tools About U2C Settings A2C-TRI Settings Image: Sensor Sensor Reconnect Image: Sensor Image: Sensor Image: Sensor Image: Sensor Go On Bus Go Off Bus Image: Sensor Image: Sensor Image: Sensor Image: Sensor VU2C Connected Mode Get Mode Image: Sensor Image: Sensor Image: Sensor Show more U2C CAN Bus Setup Image: Sensor Image: Sensor Image: Sensor Image: Sensor CAN ID Use Extended Identifier Image: Sensor Image: Sensor Image: Sensor Image: Sensor CAN ID Use Extended Identifier Image: Sensor Image: Sensor Image: Sensor Image: Sensor CAN ID Use Extended Identifier Image: Sensor Image: Sensor Image: Sensor Image: Sensor CAN ID Use Extended Identifier Image: Sensor Image: Sensor Image: Sensor Image: Sensor Image: Sensor CAN ID Use Extended ID Identifier Image: Sensor Image: Sensor Image: Sensor Image: Sensor Image: Sensor Image: Sensor </th <th>CAN Sensor Utility</th> <th></th> <th>- • ×</th>	CAN Sensor Utility		- • ×
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Advanced Extended Filter 1 Advanced Extended Filter 2		Standard ID Identifier 3 Standard ID Identifier 4 Set Filters 3 and 4	0
		Advanced Extended Filter 1 Advanced Extended Filter 2	
Status Messages:		Status Messages:	

Press the button Go On Bus - this will enable the CAN Bus transceiver Now the top row of buttons will be enabled. Press the "Get Sensor Parameters" button, to get the current sensor settings.

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U2C Sett	ings	A2C-TRI S	ettings				
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		Standard ID Id	entifier 1		Cot Filters 1 and	2	0
		Standard ID Id	entifier 2		Set Filters 1 and	2	0 🚔
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		Standard ID Id	entifier 4		Set Filters 5 and	<u> </u>	0 🚔
		Advanced Exte	ended Filter 1				
		Advanced Exte	ended Filter 2				
		Status Messages					
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The following is an example of data received from the A2C-TRI sensor.

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U2C Sett	ings	A2C-TRI S	ettings			
Reconnect	6		Get Sensor Parameters	Set Sensor Parameters	+ 🛃 Progr Sens	ram or
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Show m	ore U2C	Bandwidth -3c Number of Av	lB [Hz] erages		500Hz 1	▼ ▲
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		CAN Baud Rate Automatic re-transmission enabled				-
	Minimum time between CAN messages from sensor [WAIT] - milli seconds				s 0	
	CAN Bus Transmit Timeout [TO] . milli seconds				10	-
		Standard ID Identifier 1 Standard ID Identifier 2				
Standard ID Identifier 3 Standard ID Identifier 4 Standard ID Identifier 4		1002 1003				
Advanced Extended Filter 1				0		
		Advanced Exte	ended Filter 2		0	
		Ready		-		

Change any value and press the "Set Sensor Parameters" to change the sensor's settings. The values will not be saved in the sensor yet, so reapplying power will result in loss of the settings.

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File Sensor	Tools	About							
U2C Sett	ings		A2C-TRI Se	ettings	<				
Reconnect	5			Get Sensor Parameters	T	Set Sensor Parameters	1 +	Prog Sens	ram ;or
Go On Bus	Go Off	Bus	General Settings Operation	Alarms Settings Ac	celeration	Angles Periodic Me	ssages	GPS (
VU2C Co	nnected		Mode Angle Mode			Get Mode		Celeration Z-Axis ref] ▼ f ▼
Show m	ore U20	:	Bandwidth -3d	IB [Hz]				25Hz	-
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CAN Bus Transmit Timeout [TO] . milli seconds				10	.				
			Standard ID Id	entifier 1		Set Filters 1 and	2	1000	-
			Standard ID Ide	entifier 2		Services rand	2	1001	-
			Standard ID Id	entifier 3		Set Filters 3 and	4	1002	-
			Standard ID Ide	entifier 4				1003	÷
			Advanced Exte	ended Filter 1				0	_
			Advanced Exte	ended Filter 2				0	_
			Ready			-			

To permanently save the settings in the sensor, press the "Program Sensor" button.

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File Sensor Tools About		
U2C Settings	A2C-TRI Settings	
Reconnect	Get Sensor Parameters Set Sensor Parameters	Program Sensor
Go On Bus Go Off Bus	General Settings Alarms Settings Acceleration Angles Periodic Messages	GPS Ce · ·
V2C Connected	Mode Get Mode Angle Mode	Accelerati ▼ Z-Axis ref ▼
Show more U2C	Bandwidth -3dB [Hz] Number of Averages	25Hz ▼ 8 ₹
	CAN Bus Setup CAN ID Use Extended Identifier	291
	CAN Baud Rate	500kb/se(-
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	Standard ID Identifier 2 Set Filters 1 and 2	1001
	Standard ID Identifier 3 Set Filters 3 and 4	1002 🚖
	Standard ID Identifier 4	1003 🚖
	Advanced Extended Filter 1 Advanced Extended Filter 2	0
		0
	Ready	

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