Product Flyer PF AIC BC 3329 2501 Firmware 2.10.x and higher

Board Computer AIC BC 3329





- display, calculate and log easily your instantaneous fuel consumption data, cumulative
- · measured values as well as speed/ distance and lap routine
- · On-board vehicle and large LCD display with a top intuitive handling
- Driven by user experience

The Board Computer AIC BC 3329 is the new 4 screen LCD digital display for all AIC sensors. This features the following display possibilities:

- 0.5% accuracy in combination with a NEMO sensor
- · New with two NPN signal output modules for an easy DAQ integration
- View instantaneous fuel consumption
- Fuel consumption accumulation
- Travel time
- Lap routine for later calculations of the individual lap characteristic
- Travel speed average, if speed sensor is connected
- Distance and lap travelled
- Making a logging is as easy as ABC
- · Readings in metric or imperial units
- Easy control with start, stop logs and reset functions
- Settings are stored and will not be lost in the event of power failure
- Multiple power supplies 20-28 VAC/DC, 9-12 VDC or and optional 253VAC/DC
- · Languages: English, German, French, Spanish and Portuguese

C/DC

Two separate counters are permanently displaying and recording data for each of the selected value, such as fuel cumulative, distance cumulative and travel time.

These data and as well as others are collected in metric or in imperial units and continuously recorded onto your USB memory stick if connected and activated.

No additional software package is required, as you can import the CSV file directly to your spreadsheet and the data can be further processed.

Applications:

- R&D testing: vehicle fuel consumption monitoring for medium and large trucks, buses, construction, demolition and agriculture machines, mining, vans, passenger cars
- Press rides
- Diesel electrical generator
- Fleet management applications

Features and benefits:

- Together with the fuel measuring sensor you are reaching the highest accuracy for monitoring your vehicle consumption either for testing, billing application or fleet management.
- CSV data easily retrievable via a FAT 32 formatted quality USB key stick
- Robust housing for shock protection

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Operating

Press ESC to exit the menu

Press **F1** maximum 1 second to reset consumption counter only

Press **F1** minimum 5 second to reset all counters

Press **F2** to set a lap count (must be activated in the menu in advance)

LOG start and stop logging (hold for at least 1 second)



Press ENT for 1 sec to enter menu and to confirm selections

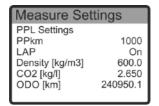
Press +/- to navigate in the menu and toggle further views

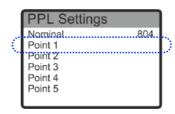
USB A interface for the memory stick

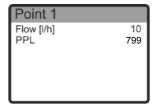
As you have seen the BC 3329 has two functions keys with F1 & F2, so if you would have a special request we are open to enhance the functionality to your needs.

Enhanced accuracy with 5 point calibration

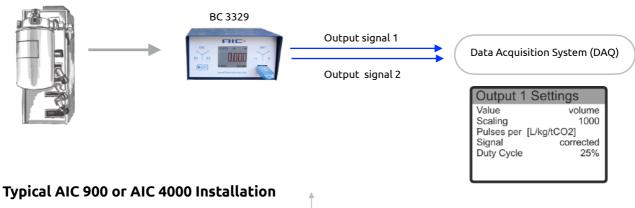
For demanding measurement applications with the AIC flow meter and the need for an 0.5% accuracy level of the measuring system the 5 point calibration is required. The 5 point calibration is performed by AIC Systems and a calibration certificate is issued.

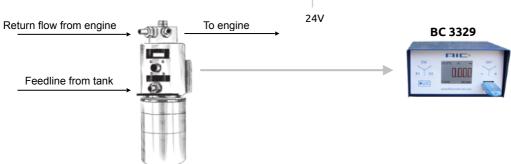






Typical AIC 7000 Installation

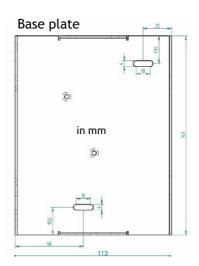




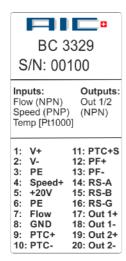
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Mounting on a small footprint

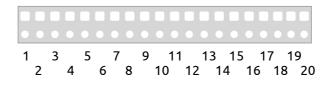




Connection plan



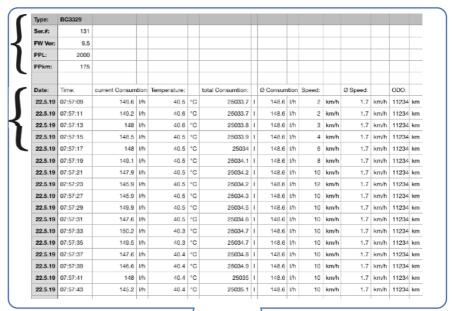
Terminal block



Example of the CSV log file, no third party conversion software required, just import into your spread sheet or data base application. LOG file on a PC screen:

Device and settings info

Data array

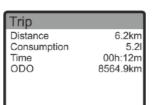


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Technical dataBoard Computer BC 3329

Manufacturer	AIC Systems Inc		
Dimension	140 x 113 x 58 mm / 5.5" x 4.45" x 2.3"		
Display	LCD (UV resistant), 4 screens lines, various characters		
Keyboard	Micro-switch push-button (UV-resistant keypad)		
Working temperature range	-5°C to +80°C (23 to 176° F)		
Housing thickness	1.5 mm coated aluminum		
IP	32		
Maximum humidity	95%, non-condensing		
Certification	EMC certified according to EN 52121-3-2:2006		
Supply voltage	9 - 12 VDC 20 - 28 VAC/DC Optional 20 - 253 VAC/DC		
Power supply load for BC only::	4.5W to 7.0W at 230VAC / 0.4 A at 24V		
Distance speed pulse input Possible range ppKm Input tension U low U high Input current Frequency f max.	PNP open collector 100 - 30'000 < 0.5 V > 3.5 V < 1 mA > 2.5 kHz (max. speed displayed 299.9 km/h)		
Fuel pulse input Possible range ppl Input tension U low U high Input current Frequency (50% duty cycle) f max.	NPN open collector 10 - 30'000 < 1.5 V > 3.5 V Approx. 2 mA < 1 kHz		
Languages	English, German, French, Spanish, Portuguese		
CE-conformity	Fulfilled		
Mounting terminals	Plug-in screw terminals		
Weight	About 220g		
Warranty	1 year		





Speed	
Consumption	20.2l/100km
Ø Consump.	15.6I/100km
Speed	85km/h
Ø Speed	52km/h
ODO	8564.9km

since Start	
Distance	12.5km
Consumption Time	10.3l 00h:25m
ODO	8564.9km

NEW available features:

Two NPN OUTputs for configurable, scalable and correctable output signals for an easy DAQ integration. So you can configure your output (volume flow, mass flow, CO2 or temp), scalable (e.g. 3785 pulses = gal) and reconditioned (we make use of the 5 point calibration results) to reach the highest possible accuracy.

Press Ride application with a palm button for a fully automated and documented trip of your measuring points during the ride and all logged values are saved for a later analysis and a further data evaluation on your USB stick in CSV format.

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NEMO option:

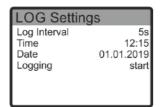
- 0.5% accuracy of full scale reading
- Improved fluid management implemented
- Instantaneous mass flow indication in kg or lbs
- Indicating the real time ${\rm CO_2}$ exhaustion

For the temperature compensation the measuring cell is upgraded with an PT 1000 high sensitive temperature probe.

The masse calculation is based upon the manual density input (according to DIN 51757 regulation).



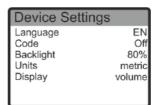






Type:	BC00229														
Sec.f:	131														
PW Yers	9.5														
PPL	2000														
PPioni	176														
Date	Time:	current Consum	dior	Temperature:		total Consumition:		Ø Consum	- - -	Speed:		D Speed		000	
22.5.19	60/57/09	149.6	174	40.8	10	29003.7		148.6	L'm	- 2	lent	1.7	ionth	11234	len
22.5.19	60,57,11	149.2	M	40.6	10	26083.7	ı	148.6	17	2	lents	1.7	imh	11234	len
22.5.19	67,57,13	148	M	40.6	10	25003.8		148.6	15	3	lent	1.7	iont	11234	len
22.5.19	60:50:55	148.8	174	40.8	10	29003.9		148.6	19	4	lent	1.7	iont	11234	len
22.5.19	90.50.17	148	10	40.5	10	25034	1	148.6	17	- 6	lent	1.7	imh	11234	len
22.5.19	07:57:19	149.1	Ih	40.5	10	25094.1		140.6	15		kents	1.7	kmh	11234	km
22.5.19	07:57:21	147.9	1h	60.5	10	25054.2		160.0	15	10	kents	1.7	kmh	11234	ken
22.5.19	62:57:23	145.9	In.	40.5	*0	25004.2		140.6	15	12	kmh	1.7	kmh	11234	km
22.5.19	67:57:27	145.9	Ih	40.5	10	25004.3		140.6	15	10	kents	1.7	amh	11234	km
22.5.19	07.57.29	109.9	1h	60.5	10	25004.5		110.0	15	10	kents	1.7	kmh	1123	ken
22.5.19	62:57:31	147.6	Ih	40.5	*0	25004.6		140.6	15	10	kmh	1.7	kmh	11234	km
22.5.19	67:57:33	190.2	Ih	40.3	10	25004.7	ı	148.6	15	10	kmh	1.7	ismh	11234	km
22.5.19	67.57:35	149.5	Ih	10.3	10	25091.7		110.0	15	10	kents	1.7	kmb	1123	ken
22.5.19	62:57:37	147.6	Ih	40.4	10	25004.0		160.6	15	10	konto	1.7	kmh	11234	ken
22.5.19	67:57:39	145.6	Ih	40.4	10	25004.9		148.6	15	10	kmh	1.7	kmh	11234	km
22.5.19	67.57:41	148	1h	10.4	10	25035	ı	110.0	L'h	10	kmh	1.7	smh	1123	ken
22.5.19	02:57:43	145.2	1h	60.4	10	25005.1		160.6	15	10	kosts		kmh	1123	ken





Measure Settings						
PPL	2000					
PPkm	1000					
LAP	On					
Density [kg/m3]	600.0					
CO2 [kg/l]	2.650					

Selection Guide

Board Computer BC 3329	NPN OUTputs	Press Ride	NEMO	LOG	Display
Two NPN OUTputs for configurable, scalable and correctable output signals for an easy DAQ integration.	Х	0	Х		
Automated data aquisition for individual measuring points with a smart data collection one-handed in the cabin	0	Х	X	Χ	
NEMO sensor and volume flow, mass flow and CO2	Χ	Χ	Χ		
Fluid temperature measured	Χ	Х	X		
5 point calibration correction curve/tabel	Χ	Х	X	X	
24/7 logging functionality on a USB memory stick as CSV file	Χ	Х	X	X	
Display access	Χ	X	X	X	X

O= optional available

All informations are subject to change.





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