





IPEmotion_PlugIn_IOtech_V01_00_01

1. Dezember 2017

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1 Important and general information

1.1 Important information

Please follow these instructions before and during the use and application on any IPETRONIK product!

1.1.1 Safety and Warning instructions

Please follow the instructions **and** information as contained in the user manual!

- 1. The user can **influence an electronic system by applying the IPETRONIK product**. This might cause risk of personal injury or property damages.
- 2. The use and application of the IPETRONIK product is permitted only to qualified professional staff, as well as, only in appropriate manner and in the designated use.
- 3. Before using an IPETRONIK measurement system in the vehicle it has to be verified that no function of the vehicle, which is relevant for secure operation, might be influenced:
 - by the installation of the IPETRONIK measurement system in the vehicle,
 - by an potential malfunction of the IPETRONIK system during the test drive.

In order to avoid possible danger or personal injury and property damages, appropriate actions are to be taken; such actions have to bring the entire system into a secured condition (e.g. by using a system for emergency stop, an emergency operation, monitoring of critical values).

Please check the following points to avoid errors:

- Adaption of sensors to components of the electrical system / electronics, brake system, engine and transmission control, chassis, body.
- Tap of one or several bus systems (CAN, LIN, ETHERNET) including the required electrical connection(s) for data acquisition.
- Communication with the vehicle's control units (ECUs), especially with such of the brake system and/or of the engine and transmission control (power train control system).
- Installation of components for remote data transmission (mobiles, GSM/GPRS modems, WiFi and Bluetooth components).



The products can be operated in extended temperature ranges greater $70 \,^{\circ}\mathrm{C}$ and therefore the operator has to take safety measures to avoid any skin burnings on hot surfaces while touching the products.

- 4. Before directly or indirectly using the data acquired by an IPETRONIK measurement system to calibrate control units, please review the data regarding to plausibility.
- 5. With regard to the application of IPETRONIK products in vehicles during use on public roads the manufacturer and/or registered user of the vehicle has to ensure that all changes/modifications have no influence concerning the license of the vehicle or its license of operation.
- 6. User does agree to the instructions and regulations as mentioned above. In case the user does not agree with the instructions and regulations as mentioned above, he has to notify this expressly and immediately in writing to IPETRONIK before confirming the sales contract.

1.2 Terms and conditions

See IPETRONIK website for details: https://www.ipetronik.com/

1.2.1 Legend of used icons

8	Тір	This icon indicates a useful tip that facilitates the application of the software.
i	Information	This icon indicates additional information for a better understan- ding.
\triangle	Attention!	This icon indicates important information to avoid potential error messages.

1.2.2 Support

Headquarter:

IPETRONIK GmbH & Co. KG

Im Rollfeld 28 76532 Baden-Baden, Germany Phone +49 7221 9922 0 Fax +49 7221 9922 100 info@ipetronik.com www.ipetronik.com Limited commercial partnership with its head office in Baden-Baden, registry court HRA No. 201313 IPETRONIK Verwaltungs-GmbH Baden-Baden is an individually liable society, registry court Mannheim HRB No. 202089 CEOs: A. Wocke, C. Buchholz

Technical support and product information

www.ipetronik.com e-mail: support@ipetronik.com

2 PlugIn overview

2.1 PlugIn description

With the IOtech PlugIn you can build your data acquisition application for DagBook 2005 series.

2.2 PlugIn installation

In order to use the PlugIn together with IPEmotion you need to install it. The PlugIn is available for download from the IPETRONIK website: https://www.ipetronik.com/ When you have installed the PlugIn, you need to launch the IPEmotion software. Then you need to access the application menu and open the OPTIONS. In the OPTIONS you can activate the PlugIn as indicated below.

7	New		Recent projects list		-					
•	Open					<u>۸</u>	tivoto Divala in			14
	Save			PEmotion options		AC	tivate Plugin in	OPTION	15	[1_
Ð	Save as			Frequently used	Active	1	Title	Version	Description	Manufactur
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3	App-Export	•		Appearance		1	WAGO PLC	01.00.00	WAGO Controller	OSRAM
				View	~	8	Protocols	02.00.00	Protocol acquisition with any CAN hardwa	IPETRONI
2	Runtime version			Data manager		AUT	PROFIBUS	01.01.00	PROFIBUS connector as master or slave	IPETRONI
				Import		1	Goldammer Multichoic	01.01.00.0	data acquisition hardware	Goldamme
)	Compare			Export		1m	technikmedia Universa	01.01.12	Universal Modbus PlugIn	Technikme
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1				Directories		1	IOtech 🔇	01.00.01	PlugIn for IOtech DaqBook 2005. Su 🕐	IPETRONI
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V				Hotkey	~	Q	OSRAM OPC	00.00.05.0	OSRAM OPC Client	OSRAMGM
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0	About		Show/edit general IF	User operations	Plugin s Specify t The used	ettings he plugin l plugin natic upo	s ns to be used. version can be changed wit fate is run at installing later	hin the list. If a plugin versions.	version number is selected that ends with a '-	dharacter,

The PlugIn is supporting the following Windows operating systems:

32 bit

2.3 DaqBook driver installation

The IOtch PluIn requirs a driver installation. The driver is available on the follwing link:

(i) ftp://ftp.mccdaq.com/downloads/iotech_software/DaqBook2000-Series/

Index of /downloads/iotech_software/DaqBook2000-Series/

Name	Last Modified	Size	Туре
Parent Directory/		-	Directory
ReadMe.pdf	Apr 2 2010	9.9K	File
daqcom2setup.exe	Apr 2 2010	26M	File
daqupdate.exe	Apr 2 2010	3.8M	File
daqviewsetup.exe	Apr 21 2010	118M	File
dasylabdaqcom2setup.exe	Oct 18 2010	35M	File
datapluginsetup.exe	Apr 2 2010	9.5M	File
labviewdaqcom2setup.exe	Apr 2 2010	54M	File
<pre>list_of_windows_caveats.pdf</pre>	Apr 2 2010	79K	File
matlabdagsetup.exe	Apr 2 2010	26M	File
postviewsetup.exe	Apr 2 2010	46M	File

Directory listing created by f1wall.ipetronik.com

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3 PlugIn configuration

3.1 Functional architecture

To get started, you need to create and Ethernet connection between the IOtech DaqBook 2005 and the PC.



3.2 Creating interface systems

The PlugIn is not supporting an automatic hardware detecting functions. Therefore you need to create the interface system manually.



3.2.1 Interface configuration

When the interface is created you need to enter the device serial number. After successful initialization of the device name and IP-address is displayed in the PlugIn.

File Project	Signals	Ac	quisition	View	Data m	anager
IOtech Hardware	System	Compone	nts Function	is Import	Export O	heck Adjust
/01.00.01.23301			Name	Active	Unit	Phys Min
Name		5 9			1	
DaqBook 200	05	0		Define	e SN ni	umber
DaqBook 200	05	0		Define	e SN n	umber
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DaqBook 20	05	G	eneral Co Se	Define mection rial number IP address	e SN ni	umber

3.2.2 Module configuration

Then you have to create the IO modules.



Create IO modules

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For each module you have to define a module number in the connection tab sheet. The IO module address can be retrieved from the IOtech specific configuration software.

File Project Sig	nals	Ac	quisition V	/iew	Data m	anager		
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4 🗐 🛕 DaqBook 2005	0		DBK7_ADR0		Hz	0		
DBK7	0		DBK7_ADR0		Hz	0		
DBK55	0		DBK7_ADR0		Hz	0		
DBK82	0							
		G	eneral Connec	ction				
				Address	0	d		

Author: FOT