

KERN & Sohn GmbH

Ziegelei 1 D-72336 Balingen E-Mail: info@kern-sohn.com Phone: +49-[0]7433- 9933-0 Fax: +49-[0]7433-9933-149 Internet: www.kern-sohn.com

Installation Instructions USB Interface Cable

KERN DBS-A02

Version 2.0 01/2014 GB

DBS-A02-IA-e-1420



KERN DBS-A02

Version 2.0 01/2014 Installation Instructions USB Interface Cable

Contents

1	Introduction	2
2	USB connection	3
3	How to install a driver	4
3.1	EWJ	4
3.2	DBS	5
3.3	Define allocation of virtual port	7
4	Device settings	10
4.1	EWJ	10
4.2	DBS	10
4.2.1	Interface parameters	10
4.3	Output interval	12
5	Communication with the device	13

1 Introduction

The UBS interface supports bidirectional data transfer from a device to a computer. UBS data is conducted to a virtual port.

The scope of delivery for the USB interface cable includes a CD containing software drivers for installation the required virtual ports on the computer.

We recommend our transfer software 'Balance Connection KERN SCD 4.0' for the import of data to a PC program.

2 USB connection

Illustration example KERN DBS



- 1. Disconnect the device meter from the mains.
- 2. For installation of USB driver see chpt. 3.
- 3. Plug your USB cable into the USB port of your device.



- 4. Plug the USB connector into the USB port on the computer.
- 5. Turn on device.
- 6. For establishing the COM Port see chpt. 3.3.

3 How to install a driver

- Ensure that the device and the PC are <u>not</u> connected to the USB cable.
 - Administrator rights are required.

3.1 EWJ

ĭ

⇒ Please insert the included driver CD into the CD-drive of your computer and open the drive in Windows Explorer.

Name *	Änderungsdatum	Тур
🐌 dbs	24.01.2014 09:41	Dateiordner
🐌 EWJ	24.01.2014 09:41	Dateiordner

⇒ Open the folder named "EWJ" and execute the "exe" file.

Name ^	Änderungsdatum	Тур
🔗 PL-2303 USB Driver.exe	02.08.2011 15:54	Anwendung

 \Rightarrow Confirm the dialogs with the "Next" button. The driver will be installed.



With the operating system Microsoft Windows 8 and an active internet connection, it is possible, that a non-compatible driver is installed by Windows Update. If this is the case, certain versions of the balance may not work with the update driver and will be listed as erroneous in the device manager (also see section 3.3). Here, the "previous version" of the driver has to be selected in the property dialog of the COM port corresponding to the balance.

3.2 DBS

- ⇒ Insert the supplied driver CD into your CD drive and open the drive in Windows Explorer..
- ⇒ Open the folder named "DBS"
- ⇒ Select the driver version compatible with your system.

🕑 CD-Laufwerk (E:)		_ 🗆 ×
Datei Bearbeiten Ansicht Favoriten	Extras ?	A.
🔆 Zurück 👻 📀 🛛 🏂 💭 Such	en 🌾 Ordner 🔛 -	
Adresse 💽 E:\		💌 ラ Wechseln zu
	Name	Größe Typ
CD-Schreibaufgaben ?	Momentan auf der CD vorhandene Dateien	
3 Dateien auf CD schreiben	Contract Linux	Dateiordner
		Dateiordner
Datei- und Ordneraufgaben	Common Windows	Dateiordner
Solar Freigeben		
Andere Orte 2	4	
🛃 Arbeitsplatz		
📋 Eigene Dateien		
🧐 Netzwerkumgebung		
Details	-	
CD-Laufwerk (E:) CD-Laufwerk		
Dateisystem: CDF5		
Freier Speicher: 0 Byte		
Gesamtgröße: 2,46 MB		
	•	
Objekt(e)		

Example Windows:

🚞 Windows					_	٥×
Datei Bearbeiten Ansicht Favorite	en Ex	tras ?				.
🔆 Zurück 👻 🕤 - 🏂 🔎 Su	uchen	🏳 Ordner 🛛 🔢 🗸				
Adresse 🛅 E:\Windows					💌 🄁 Wechse	eln zu
		Name	Größe	Тур	Geändert am	Or
CD-Schreibaufgaben	*	Momentan auf der CD vorhan	dene Dateien			
(7) Dateien auf CD schreiben		a2bit		Dateiordner	19.12.2011 09:27	Mc
		👝 64bit		Dateiordner	19.12.2011 09:27	Mc
	^	Setup.exe	1.696 KB	Anwendung	12.12.2011 10:28	Mc
Datel- und Ordneraurgaben	^					
💋 Neuen Ordner erstellen						
🔕 Ordner im Web veröffentlichen						
😂 Ordner freigeben						
Andere Orte	*		1	4		
CD-Laufwerk (E:)						
Eigene Dateien						
Netzwerkumgebung						
Details	×					
		4				
3 Objekt/e)						<u>,</u>
lo optendo)						1.

➡ To start driver installation, run the 'setup.exe' file.
 ➡ Windows



For more info

For more information about driver installation see http://www.ftdichip.com/index.html

Chin	USB Davice			unt Dealon						
Chip	USB DOVICO	solutions Asic	Dosign Produ	uer Design						
	Virtual COM Port	rt Drivers								
vers	This page contains the VCF	P drivers currently av	ailable for FTDI devi	003.						
CP Drivers	For D2XX Direct drivers, pl	lease click <u>bece</u> .								
		Contra								
mware	Installation guides are availa	able from the Installa	tion Guides page of	the Documents s	ection of t	his site for s	elected o	perating sys	stems.	>
pport										
droid	VCP Drivers									
les Network	Virtual COM port (VCP) driv	vers cause the USB	device to appear as	an additional CO	Mpotav	ilable to the	e PC. Ap	plication so	tware can a	ccess the USB device in the same way as it would access a standard COM port
b Shop	and the second s									
wsletter										
wsletter rporate	This software is provided by	y Future Technology	Devices International	al Limited "as is"	and any e	press or im	nplied wa	manties, ind	luding, but n	ct imited to, the implied warranties of merchantability and fitness for a particular pu
wsletter rporate ntact Us	This software is provided by disclaimed. In no event shall	y Future Technology 8 future technology d	Devices International li	al Limited "as is" imited be liable fo	and any e or any dire	ipress or im ct. indirect, i	nplied wa incidental	manties, ind I, special, er	luding, but n templary, or	ct imited to, the implied warranties of merchantability and fitness for a particular pur consequential damages (including, but not imited to, procurement of substitute goo
wsietter rporate ntact Us	This software is provided by disclaimed. In no event shall loss of use, data, or profits,	y Future Technology 8 future technology d or business interrup	Devices International evices international li tion) however cause	al Limited "as is" imited be liable fo d and on any theo	and any e or any dire ory of tabit	ipress or im ct, indirect, i ty, whether i	nplied wa incidental in contrac	manties, inc I, special, ex ct, strict liabi	luding, but no xemplary, or lity, or tort (ir	ct limited to, the implied warranties of merchantability and fitness for a particular par consequential damages (including, but not limited to, procurement of substitute goo including negligence of otherwise) arising in any way out of the use of this software, i
wsletter rporate ntact Us	This software is provided by disclaimed. In no event shal loss of use, data, or profits, the possibility of such dama STRI discuss may be used.	y Future Technology 8 future technology of or business interrup 1ge.	Devices International evices international li tion) however causer	al Limited "as is" imited be lable fo d and on any theo o ETTO cente	and any e or any dire ory of Tabil	ipress or im ct. indirect, i ty, whether i	nplied wa incidental in contrac	manties, inc I, special, ex ct, strict liabi	luding, but ro cemplary, or lity, or tort (ir	ct instects, the implied warranties of merchantability and thress for a particular pol consequential damages (including, but not instead to procurement of substitute goo including negligence or otherwise) arising in any way out of the use of this software,
wsletter rporate ntact Us	This software is provided by disclaimed. In no event shall loss of use, data, or profits, the possibility of such dama FTDI chivers may be used on ETDI chivers may be chickling.	y Future Technology 8 future technology d or business interrup loge. anly in conjunction wi orded in any form as b	Devices International evices international i tion) however causer Ith products based or	al Limited "as is" limited be lable fo d and on any theo n FTDI parts mation is cet mod	and any e or any dire ory of Tabil	ipress or im ct. indirect, i ty, whether i	nplied wa incidental in contrac	manties, inc I, special, ex ct, strict liabi	lading, but no xemplary, or tity, or tott (ir	ct instects, the reglied warranties of merchantability and fitness for a particular por consequential dumages (including, but not limited to, procurement of substitute goo including negligence or otherwise) arising in any way out of the use of this software, o
wsietter rporate ntact Us	This software is provided by disclaimed in no event shall loss of use, data, or profits; the possibility of such dama FTDI drivers may be district FTDI drivers way be district falcuster words TE andre	y Future Technology Il future technology di or business interrupi uge. xity in conjunction wi uted in any form ac k r product ID or descr	Devices International evices international i tion) however causes th products based on ong as license inform rotion string are used	al Limited "as is" limited be lable fr d and on any theo n FTDI parts mation is not mod d. t. is the respon	and any e or any dire ory of liabil fied.	igress or im ct. indirect, i ty, whether i be product a	nplied wa incidental in contrac	manties, inc I, special, ex ct. strict liabi	lading, but rx xemplary, or itty, or tort (ir	ct limited to, the implied warrantises of menchantability and fitness for a particular pol consequential damages (including, but not limited to, procurement of substitute goo including negligence or otherwise) arising in any way out of the use of this software, o press and subsequent WHOL re-certification as a result of making these chances.
wsietter rporate ntact Us	This software is provided by disclaimed. In no event shall loss of use, data, or profits; the possibility of such dama FTDI drivers may be used or FTDI drivers may be distribu- if a custom vendor ID and/or	y Future Technology Il future technology of or business interrupi ige. antly in conjunction wi uted in any form as k r product ID or desci	Devices International li evices international li tion) however causes th products based on ong as license inform notion string are used	al Limited " as is" imited be liable fo d and on any fixed n FTDI parts nation is not mod d, it is the respon	and any e or any dire any of liabil field. sibility of t	igress or im ct, indirect, i ty, whether i he product n	nplied wa incidental in contrac manufactu	manties, incl I, special, ex ct, strict liabi arer to maint	luding, but no cemplary, or lity, or tott (ir lain any chan	ct imhed to, the implied warranties of menchantability and threes for a particular por consequential damages (including, but not limited to, procurement of substitue on including negligence or otherwise) ansing in any way out of the use of this software, rights and subsequent VMHQL (in-certification as a result of making these changes.
wsletter rporate ntact Us	This software is provided by distinited in no event shall loss of use, data, or profits, the possibility of such dama FTDI clivers may be addet FTDI clivers may be addet if a custom vendor ID and/or Currently Supported VCF	y Future Technology of 8 future technology of or business interrup loge. sely in conjunction wi deed in any form as it r product ID or descr P Drivers :	Devices international evices international it tion) however causer Ith products based on ong as iconse inform robion string are user	al Limited " as is" imited be lable fi d and on any fixed n FTDI parts nation is not modi d, it is the respon	and any e or any dire ory of labil ifeet. sibility of t	ipress or im ct, indirect, i ty, whether i he product in	nplied wa incidental in contrac manufactu	manties, inc I, special, ex ct, strict liabi xer to maint	luding, but no kemplary, or lity, or tort (ir lain any chan	ct inntects, the implied warrantees of merchantability and thress for a particular por consequential damages (including, but not limited to, procurement of substitue) including negligence or otherwise) ansing in any way out of the use of this software, and subsecuent WHOL re-certification as a result of making these changes.
wsletter rporate ntact Us	This software is provided by disclaimed in no event shall biss of use, data, or profils, the possibility of such dama FTD drivers may be disclib. FTD drivers may be disclib. If a custom vendor EI and/or Currently Supported VCF	y Future Technology of or business interrup (ge. wdy in conjunction will deal in any form as & r product ID or descr P Drivers:	Devices international levices international le teorito international le teorito international de teorito international	al Limited " as is" imited be lable fi d and on any fixed in FTDI parts nation is not mod d, it is the respon	and any e or any dire ny of liabil fied. sibility of t	ipress or im ct, indirect, i ky, whether i he product in	nplied wa incidental in contrac manufactu	manties, inc I, special, ex ct. strict liabi arer to maint	luding, but rx xemplary, or ithy, or tott (ir lain any chan	ct inntects, the implied warranties of merchantability and thress for a particular po consequential damages (including, but not innted to, procorement of substitute goo coulding suggestee or otherwise) ansing in any way out of the use of this software, i ages and subsequent WHQL re-certification as a result of making these changes.
wsletter rporate ntact Us	This software is provided by disclaimed in no event shal bas of use, data, or profils, the possibility of such dama FTD drivers may be distilted FTD drivers may be distilted a custom vendor EI and/or Currently Supported VCF	y Future Technology d Rature technology d or business interrup ige. woly in conjunction will used in any form as k r product ID or desc P Drivers:	Devices international le evices international le tion) however caused th products based on ong as icense inform option string are used	al Limited " as is" limited be lable fi d and on any theo n FTDI parts mation is not modi d, it is the respon Proc x64 (64.6th	and any e or any dire any of Tabil field sibility of th cessor An PPC	press or im ct, indirect, i ty, whether i he product n chilecture ARM	nplied wa incidental in contrac manufactu MIPSII	manties, incl i, special, ex ct, strict liabi arer to maint	Luding, but rix remplary, or lity, or tort (ir lain any chan	ct initied to, the implied warranties of merchantability and fitness for a particular pu consequential damages (including, but not limited to, procurement of substitute goo rockuding negligence or oftennise) arising in any way out of the use of this software, i ages and subsecuent WHQL re-certification as a result of making these changes.
wsletter rporate ntact Us	This software is provided by disclaimed in no event shal biss of use, data, or profils, the possibility of such dama FTD drivers may be distible a castom vector D and/or Currently Supported VCP	y Future Technology of Inture decinology of or business interrup oge. why in conjunction will ded in any form as a product ID or descr P Drivers : Release Date	Devices International a evices international is bon) however caused on ong as iconse enform option string are used	al Limited Tas is" imited be lable fo d and on any free n FTDI parts mation is not mod d, it is the respon Proc x64 (64-bit)	and any e or any dire ory of Tabli field. sibility of the sessor An PPC	press or im ct, indirect, i ty, whether i he product in chilecture ARM	nplied wa incidental in contrac manufactu MIPSII	manties, incl (, special, er ct, strict liabi arer to maint MIPSIV	luding, but ny kempiany, or ithy, or tott (ir lain any chan SH4	ct inntects, the implied warranties of merchantability and fitness for a particular pur consequential damages (including, but not limited to procurement of substitute goo including englighence or otherwise) arrising in any way out of the use of this software, of https://www.out.com/out
wsietter rporate ntact Us	This software is provided by dischimed in no event shal biss of use, data, or profile, the possibility of such dama FTD drivers may be stated FTD drivers may be distribut if a custom vendor ID and/or Currently Supported VCF Operating System Windows*	y Future Technology of or business intempinge. indepin conjunction will used in any form as is product IID or description P Drivers: Release Date 2011-04-12	Devices International a evices international i tion) however caused on ong as icense inform option string are used x86 (32-bit) 2 08.14	al Limited "as is" imited be lable fo d and on any theo in FTD parts mation is not mod d, it is the respon rot x64 (64-bit) 2 08 14	and any e or any dire any of liabil field. sibility of th cessor An PPC	rpress or im ct, indirect, i ky, whether i he product m chitecture ARM	nplied wa incidental in contract manufactu MIPSII	manties, incl (, special, er ct, strict liabi arer to maint MIPSIV	suding, but ny kempiany, or lity, or tott (ir lain any chan SH4	ct inhects, the implied warranties of mechantability and threas for a particular put consequential damages (including, but not innited to, procurement of substitute goo including negligence or otherwise) ansing in any way out of the use of this software, of the software of the software of the software of the software of the software of subsecuent V/HQL, re-certification as a result of making these changes. <u>Comments</u> 2 06:14 VH-QL Certified Available as software conclusion <u>Endension Nones</u>
wsietter rporate ntact Us	This software is provided by disclaimed in no event shall be soft dee, data, or profits; the possibility of such dams FTDI drivers may be disclaimed FTDI drivers may be disclaimed a custom vendor El andro Currently Supported VCF	y Future Technology and the technology of or business interrup top. 	Devices international evices international il bicol) however caused on gas i conse inform opdas i conse inform poten string are used x86 (32-bit) 2 08:14 2 08:14 2 08:17 (Beta)	al Limited "as is" imited be lable fi d and on any fixed nFTDI parts mation is not mod d, it is the respon ref 208 14 208 14 208 17(Beta)	and any e or any dre by of labil fied sibility of t cessor An PPC	chilecture Chilecture ARM	nplied wa incidental in contract manufactu MIPSII	manties, incl I, special, ex ct, strict liabi arer to maint MIPSIV	luding, but nx kemplany, or lity, or tott (ir lain any chan SH4	ct inhields, the implied warranties of mechantability and threas for a particular por consequential damages (including, but not inhield to procurement of substitute goo including negligence or otherwise) ansing in any way out of the use of this software, i nges and subsequent WHQL re-certification as a result of making these changes. 2.06.14 WHQL Certified Available as software, enclosed bediever houses 2.06.14 WHQL Certified Available as software, enclosed bediever houses 2.06.17 Betta Version 2.06.17 Betta Version
We letter orporate ontact Us 10° 10° Seven	This software is provided by disclaimed in no event shall bis of use, data, or profils; the possibility of such dams FTDI citizen smay be used o FTDI citizen with be distribu- if a custom vendor El andro Currently Supported VCF Operating System Windows*	y Future Technology A for business interrup logic business interrup logic comprision with a logic deal in any future of the logic business with a logic business of the logic business Release Date 2011-04-12 2011-04-12 2011-04-12 2011-04-12	Devices international la exices international la tion) however caused in products based on ong as i come inform uption string are used x86 (32-bit) 2.08 14 2.08 17(Beta)	al Limited "as is" imited be liable fi d and on any Preci- netTO parts nation is not modi not model proc x64 (64-bit) 208 14 208 14 208 17(Beta)	and any e or any dire site of tabil field sibility of the cessor An PPC	tpress or im ct, indirect, i ty, whether i he product in chilacture ARM	mplied was incidental in contract manufacts MIPSII	manties, incl i, special, ex ct, strict liabi arer to maint	luding, but nx xemplary, or lity, or tott (ir lain any chan SH4	ct innects, he implied warranties of merchantability and thress for a particular po consequential damages (including, but not limited to, procurement of substitue po including negligence or otherwise) arising in any way out of the use of this software, higher and subsequent WHQL re-certification as a result of making these changes. Comments 2.06.14 WHQL cented Available as software, encountible Breasin Notes 2.06.14 WHQL Cented Available as software, encountible Breasin Notes 2.06.14 WHQL Cented Available as software, encountible Breasin Notes 2.06.14 WHQL cented Manual Comments 2.06.14 WHQL encountible Breasin Notes 2.06.14 WHQL and Cented Manual Comments 2.06.14 WHQL encountible Breasin Notes 2.06.14 WHQL encountible Breasin Notes 2.06.14 WHQL encountible Breasing Breasen Audits



• Turn on device.

Ĭ

⇒ Wait until the message "Hardware has been successfully installed and is ready for use" appears on the screen.



Starting with Windows 7, the name of the new virtual COM port will be shown in the info box appearing on the bottom left of the screen ("COM7"):



⇒ Call device manager by pressing the Windows and Pause keys.



⇒ Select "Hardware" folder

Until Windows XP:

stemeigenschaften		?
		<u> </u>
Systemwiederherstellung A	utomatische Updates 📔 Remo	ite
Allgemein Computername	. Hardware Erweiti	ert
_ Geräte-Manager		
Der Geräte-Manager listet	t alle auf dem Computer installierten	
die Eigenschaften eines G	Geräts zu ändern	
	Carilla Manager	
	Gerate-Manager	
- T1		
Durch die Treibersionierur	ng kann sichergestellt werden, dass	
installierte Treiber mit Win	dows kompatibel sind. Über Window	s
Update konnen Sie festle aktualisiert werden sollen.	gen, wie Treiber über diese Website	
Treibersignierung	Windows Update	
	windows opdate	
- Hardwareprofile		_
Dher Hardwareprofile kön	nen Sie verschiedene Hardware-	
konfigurationen einrichter	n und speichern.	
	Hardwareprofile	

Starting with Windows 7:

Startseite der Systemsteuerung
Geräte-Manager
🛞 Remoteeinstellungen
🎯 Computerschutz
🅞 Erweiterte Systemeinstellungen

Basisinformationen über de

we have been
Windows-Edition
Windows 7 Professional

Windows / Professional
Copyright © 2009 Microsof

Service Pack	1

Weitere Features mit einer

System ------

Hersteller: Modell: Klassifikation:

⇒ Click on Device Manager



- ⇒ Extend the "Ports" entry by clicking on the corresponding plus icon. The correct entry is named depending on the type of scale:
 - o DBS: "USB Serial Port"
 - EWJ: "Prolific USB-to-Serial Comm Port"
- Select the displayed COM Port, such as COM4, accordingly in the transfer software, see chap. 5.



4 Device settings

The communication parameters (such as baud rate, bits and parity) of the device and the transfer software must be concordant for data transfer to take place. Additionally, the device has to be configured for USB communication. Please refer to the operating manual for more detailed instructions.

4.1 EWJ

For USB communication, the balance has to be set to mode "S USB" in menu "F3 COM" (see Chapter 9 of the manual included with the scale). Additionally, in this menu, the communication parameters can be adjusted accordingly.

4.2 DBS

4.2.1 Interface parameters

- 1. Press the **Menu** button to access the menu and the first menu item "**PRoGRM**" will be displayed.
- 2. Use the navigation buttons ↓ ↑ to select menu item "CoM.SET".
- Confirm with ENTER key, the currently preset port will be displayed oUT.I = RS232 oUT.2 = USB
- 4. Use the navigation keys to select $\Psi \uparrow$ "oUT.2".
- 5. Press **ENTER** to save input and the currently preset baud rate will be displayed.
- Use the navigation buttons ↓ ↑ to select the desired setting.
- 7. Press **ENTER** to save input, the next interface parameter will be displayed.

Set all interface parameters in turn and then repeat steps 6 and 7 in each case.

• Baud rate

Selectable settings:

Display	B.1200*	B.2400	B.4800	B.9600	B.19.2k	B.38.4k
Baud rate	1200bps	2400bps	4800bps	9600bps	19.2k bps	38.4k bps





• Parity

Selectable settings:

Display	P.NoNE*	P.oDD	P.EVEN
Parity	Small parity, 8 bit	Odd parity, 7 bit	Straight parity, 7 bit

• Stop bit

Selectable settings:

Display	SToP. 1*	SToP. 2
Stop bit	1 bit	2 bit

• Handshake

Selectable settings:

Display	HS.HW*	HS.SW	HS.TiM	HS.oFF
Hand- shake	Hardware handshake	Software handshake	Timer handshake	No handshake

• Delimiter (terminator)

Selectable settings:

Display	CR*	LF	CR+LF
Terminator	CR	LF	CR+LF

 \Rightarrow Press **ESC** to return to Moisture analysis mode.

AUTO	

1

- Factory settings are marked by *.
- For further information on how to operate your moisture meter please refer to the operating instructions enclosed with each device.

4.3 Output interval

- ⇒ Press the Menu button to access the menu and the first menu item "PRoGRM" will be displayed.
- ⇒ Use the navigation keys ↓ ↑ to select the menu item "PRINT".
- Acknowledge with ENTER key, "INTVAL" will be displayed.
- ⇒ Press ENTER to save input and the currently preset output interval will be displayed.
- ⇒ Use the navigation buttons ♥ ↑ to select the desired setting.

Selectable settings:

oFF	No data output
1SEC	Output interval 1 sec
2SEC	Output interval 2 sec
5SEC	Output interval 5 sec
10SEC	Output interval 10 sec
30SEC	Output interval 30 sec
1MIN	Output interval 1 min
2MIN	Output interval 2 min
5MIN	Output interval 5 min
10MIN	Output interval 10 min
FINAL	Data output at end of measurement

- ⇒ Press ENTER to save input and the equipment will revert to the menu.
- ⇒ Press **ESC** to return to Moisture analysis mode.



0	1 I <u>1 I</u> 11 I	<u>`</u>
	~	
1		
10	11111/HL	
		-

5 Communication with the device

Example using transfer software **Balance Connection KERN SCD 4.0 and moisture analyser KERN DBS**:

For further information on the installation / operation of "Balance Connection KERN SCD 4.0" please refer to the operating instructions enclosed with the software.

⇒ Check whether the communication parameters of your moisture meter and the transfer software are concordant.

For moisture meter	PC / Balance Connection KERN SCD 4.0	
settings see chap. 4.2		
COM 4, see chap. 3.2 Baud rate 9600 Bits/s Data bits: 8 Parity none Stop bits 1	KERN BalanceConnection 4 Anwendung auswählen Ziehen Sie das Suchwerkzeug über das Fenster der Anwendung, in die Sie Daten übertragen wollen und lassen Sie die linke Maustaste wieder los. Neu Ändern Löschen Verwalten Suchwerkzeug: Suchwerkzeug: Image: Suchwerkzeug: Ausgewählte Anwendung Image: Daten als Text übertragen Fes Fenstertext Image: Daten formatient übertragen COM Anschluß: COM4 Image: Daten formatient übertragen Bits pro Sekunde: 9600 Image: Daten formatient übertragen Daten formatient übertragen Image: Daten formatient übertragen Parität: Keine Image: Daten formatient übertragen Image: Daten formatient übertragen Image: Daten formatient übertragen Image: Daten formatient übertragen Image: Daten formatient übertragen Daten formatient übertragen Image: Daten formatient übertragen Image: Daten formatien for	

In the transfer software, select the application into which you want to transfer your data. Start your application program, keep it opened in the background and left-click your mouse, keeping the mouse button pressed down, so that you can drag the searching tool with your selected application to the window of your application and then release the mouse button. Afterwards the application selected by you will appear in the box under SELECTED APPLICATION (e.g. Microsoft Excel).

(🕸 🤇 KERN BalanceCo	onnection 4
Anwendung auswählen	Waage
Ziehen Sie das Suchwerkzeug über das Fenster der Anwendung, in die Sie Daten übertragen wollen und lassen Sie die linke Maustaste wieder los.	Neu Ändern Löschen Verwalten 440/DE/FKB_A/CDE/CME/NDE/PCB/ FCB
Suchwerkzeug: Ausgewählte Anwendung SEXCELEXE	🔽 Daten als Text übertragen 🛛 📮 💼
Fenstertext Microsoft Excel - Mappe1	Daten formatiert übertragen
Schnittstellenparameter	└────────────────────────────────────
COM Anschluß: COM3 💽 👟	■ Wert V Dezimalpunkt
Bits pro Sekunde: 9600 🔽	Einheit
Datenbits: 8	Makro
Parität. keine 🔽	
Stopbits: 1	🔲 Zeit 📄 Makro 📄
Protokoll: kein	
WARTH GURCHTE MALANCES WITCHTS	● Taste F2 ▼ ● Stabiler Wert ● Instabiler Wert ● Instabiler Wert ● Timer 00:00:10
 Schnittstelle wurde geöffnet 	

⇒ Click on "Transfer data as text", and set the cursor in the application program (such as Microsoft Excel).

KERN BalanceCo	onnection 4
Anwendung auswählen	_ Waage
Ziehen Sie das Suchwerkzeug über das Fenster der Anwendung, in die Sie Daten übertragen wollen und lassen Sie die linke	Neu ändern Löschen Verwalten
Maustaste wieder los.	FCB
Suchwerkzeug: 🎡	🗹 Daten als Text übertragen 🛛 🖪 🖺 🧻
Ausgewählte Anwendung EXCELEXE	
Fenstertext	
Microsoft Excel - Mappe1	Daten formatiert übertragen
Schnittstellenparameter	Datenübertragung
COM Anschluß: COM3 💽 🐁	☐ Wert IZ Dezimalpunkt
Bits pro Sekunde: 9600 💌	Einheit
Datenbits: 8	Makro
Parität: keine ▼	Makro
Stopbits: 1	Zeit
Protokoli: kein 🔽	Signalton bei Datenempfang
	• Taste F2 • Stabiler Wert • Timer 00:00:10 • Instabiler Wert
 Schnittstelle wurde geöffnet 	

⇒ Start moisture determination for a sample

Data output for header will commence immediately after moisture determination was started. Depending on the setting for the output interval (See chap. 4.2), output of measured values will take place for instance every 2 minutes.

Once drying has been completed, the measured result will be displayed (footer)

Example protocol:

