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44287 Dortmund		to Windows [®] 98 program "HyperTerminal"		
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Instructions for Data-Transmission from the Lovibond[®] BODmeter

OxiDirect

to Windows[®] 98 program "HyperTerminal"

Remarks:

- valid for Lovibond[®] OxiDirect BOD measurement system
- HyperTerminal belongs to the normal Windows[®] distribution
- this instruction is also valid for other Windows Versions (3.11, WIN95, WIN NT, WIN XP...), with only slight differences
- As we only have a computer system for German language the actual names of menus, system control, parameters etc. might vary on your system.

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Connecting the OxiDirect to the PC

Connect the OxiDirect with the computers serial connection port (RS232) using the appropriate cable (delivered with OxiDirect).

Preparing the program "HyperTerminal"

Please see chapter "First Start of HyperTerminal"

Starting the datatransfer at the OxiDirect instrument

The datatransfer can only be started at the OxiDirect instrument. HyperTerminal in our case acts just as a passive program, waiting for data input at the serial port. To start the datatransfer hold the Read button pressed at the OxiDirect, while switching on the instrument. Wait until three decimal points flashed two times in the lower display. Now release the Read button. The instrument will display "Prn" in the upper display and start to print the data. While printing data, the instrument will light the LED corresponding to the measurement-head who's data is currently output at the serial link.

First Start of HyperTerminal

Select Start \rightarrow programs \rightarrow accessory \rightarrow communication \rightarrow HyperTerminal. The picture below will be displayed (picture 1 page 4). Double-click on HYPERTRM.EXE to start HyperTerminal (depending on the settings of your system, the EXE might possibly not be displayed).

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📥 C:\Pr	ogramme∖Z	ubehör\H	yperTerminal				_ 🗆 ×
<u>D</u> atei	<u>B</u> earbeiten	<u>A</u> nsicht	<u>W</u> echseln zu	<u>F</u> avoriten	2		-
Zuri	ick.	→ Vorwärts	- ti Aufwärts	الله Laufwerk	l : ve	X Trennen	»
Adresse	C:\Progr	amme\Zub	ehör\HyperTermir	nal			•
	0.292	Dat	einame			Größe	Тур
		N 1	nticons.dll			40 KB	Programr
		S 1	ypertrm.dll			484 KB	Program
Hy	perTe	rm 🦫	IYPERTRM.EXE			24 KB	Anwendı
Markie ein Ob seine Besch anzuz	eren Sie)jekt, um reibung eigen.						
			5	48 🛄 Arbei	itsplatz		11.

After double-click on HYPERTRM.EXE you will see picture 2, for a short time.



picture 2

If HyperTerminal is used for the first time on your system, a message will show up asking for the installation of a modem (picture 3 page 5):

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Select "no".
The following will be displayed:
Beschreibung der Verbindung
description of the connection
Neue Verbindung
new connection
Geben Sie den Namen für die neue Verbindung ein, und weisen Sie ihr ein Symbol zu:
Name:
<u>Symbol:</u>
cancel
OK Abbrechen

picture 4

At "name" type in for example "OxiDirect"



picture 5

And then click "ok".

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If a modem was installed already

(not necessarily currently connected to your computer) there will be displayed:

Verbinden mit	<u>?</u> ×
test01	
Geben Sie die Rufn	ummer ein, die gewählt werden soll:
Landeskennzahl:	Vereinigte Staaten von Amerika (1)
<u>O</u> rtskennzahl:	
<u>B</u> ufnummer:	
Verbinden über:	Standard 56000 bps K56Flex-Modem
connect using:	
	OK Abbrechen

picture 6

The values actually shown may vary. Please continue at "Setting up the connection if a modem was installed already" (page 20) first.

If a modem was not yet installed

it will be displayed:

	Verbinden mit	? ×
	Rhotomete	r
	Geben Sie die Ruf	nummer ein, die gewählt werden soll:
	Landeskennzahl:	Deutschland (49)
	<u>O</u> rtskennzahl:	0231
	<u>R</u> ufnummer:	
	<u>V</u> erbinden über:	Direktverbindung über COM1
con	nect using:	
		OK Abbrechen

picture 7

(Remark: You do not need a modem to connect the OxiDirect.)

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Choosing the COM port

At "connect using" (picture 7) choose the COMx port that you connected the OxiDirect cable to. Now click "ok"

HyperTerminal will show:

	Eigenschaft	en von COM	41		? ×
	Anschlussei	nstellungen	\rightarrow	properties	of com1
baud rate or bits per	second of	r speed:			
	B <u>i</u> ts p	ro Sekunde:	2400	-	
data b	oits	<u>D</u> atenbits:	8	•	
pari	ty	<u>P</u> arität:	Keine	•	
		ı			
stop l	oits	S <u>t</u> oppbits:	1	_	
a	. 1]			
flow cc	ontrol	Pr <u>o</u> tokoll:	Hardware	•	
	Erv	veitert	<u>S</u> tanda	ard wiederhersteller	n
			K Abbr	echen Übern	ohmon
					annan

picture 8

Setting up the port parameters

Make the following selections here (picture 8):baudrate:9600data bits:8parity:nonestop bits:1flow control:none

Now the properties should be similar to this (picture 9):

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Eigenschaften von COM1	? ×
Anschlusseinstellungen properties of com1	1
baud rate <u>or</u> bits per second <u>or</u> speed:	
Bits pro Sekunde: 9600	
data bits Datenbits: 8	
parity Parität: none	
stop bits Stoppbits: 1	
flow control Protokoll: none	
<u>E</u> rweitert <u>S</u> tandard wiederherstellen	
OK Abbrechen Ü <u>b</u> erneh	men

Click "ok" now.

If you followed the steps at "If a modem was not yet installed" (page 6), the HyperTerminal main window will be displayed now (picture 10 page 9).

If you followed the steps at "Setting up the connection if a modem was installed already" (page 20), picture 30 (page 23) will be displayed again. Click on "ok" once more, and the HyperTerminal main window will be displayed (picture 10 page 9).

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HyperTerminal main window



picture 10

Offline $\leftarrow \rightarrow$ Connected

If the status, displayed at the lower left corner, does not show "connected.." but "offline", please choose "connect" at the menu "Connection":



picture 11

Now "connected..." should be displayed as status.

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Save parameters

At menu "file" select "save as...":

🌯 Photometer - HyperTerminal 📃 🖪	×
Datei Bearbeiten Ansicht Anruf Übertragung ?	
Neue Verbindung	
Speichern	
Speichern unter	
Seite einrichten Drucken Or Store as	
<u>E</u> igenschaften	
Beenden Alt+F4	
	ļ

picture 12

This window will be displayed now, with filename "OxiDirect", as typed in earlier:

	Speichern ur	nter		? ×	
	Speichern <u>i</u> n:	🔁 HyperTerminal	- 🗈 🧕	1 🖻 🔳	
fi1	e name			save or sto	re
111	Dateiname:	OxiDirect.ht		<u>Speichern</u>	
	Dateituo:	Sitzungedateien (* bt)		Abbrechen	
		Joizungsualeien (Lini)		Hobioonon	

picture 13

Now click on "save".

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The current settings will be saved in a "session-file". The next time you can start HyperTerminal by double-click on this "session-file" and HyperTerminal will automatically load the settings for data transfer from the OxiDirect.

Receiving data for storage

Now choose the menu "transmission" and select the sub-menu "record text..." to receive data with the possibility to store it. The OxiDirect should be connected to the PC, but not yet switched on.



picture 14

The following window will be displayed:



picture 15

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Name of the data storage file

Here (picture 15) you can give a name and a folder for the file the received data should be saved to. In our example we kept the default folder and name. The data will be stored to the file "CAPTURE.TXT" at the folder c:\Programme\Zubehör\HyperTerminal. Click on "start". HyperTerminal is now ready to receive data and store it afterwards. <u>Attention:</u> The data received will not be stored during reception but only when the transmission is ended as described below (see "Terminate data transmission and store data" page 12)

Start transmission

Now start the transmission of data as described in "Starting the datatransfer at the OxiDirect instrument" at page 1.

You can watch the data being received at the HyperTerminal window:



picture 16

Terminate data transmission and store data

When all data was transmitted, choose the menu "transmission" and select the sub-menu "record text..." and there the part "**end record**" (see picture 17):

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🚵 OxiDirect2 - HyperTerminal		<u> </u>
OxiDirect2 - HyperTerminal Datei Bearbeiten Ansicht Apruf U Die O O Die O U Die O Die Die Die O U 10 : 408 Die Die <thdie< th=""> Die Die <t< td=""><td>ibgrtragung 2 Datei genden Datei genpfangen Text aufzeichnen Iextdatei senden Am Drucker aufzeichnen Continue</td><td> ×</td></t<></thdie<>	ibgrtragung 2 Datei genden Datei genpfangen Text aufzeichnen Iextdatei senden Am Drucker aufzeichnen Continue	×
Position: 5 No head found Position: 6 No head found		
Printing done.		•

<u>Now the received data is stored</u>, at our example in file CAPTURE.TXT at folder C:\Programme\Zubehör\HyperTerminal, and can be used afterwards as you need it.

Using the data in Microsoft Excel

To use the received and stored data in an Excel spreadsheet, start Excel and go to the file-open menu. You should see the file selection window now. Navigate to the folder where you stored the received data (see chapter "Name of the data storage file" at page 3). In the file selection window of Excel switch the file type filter setting to "textfiles" or "all file-types". Now you should be able to find the file with the stored data in the appropriate folder. Open this file. Excel will ask how your data can be described best and you can make a choice between "fixed length" and "special separation character": Please choose "special separation character" here and continue. A new small window will pop up, where you can select or give the separation character. Type in the ":" at "other" and deselect the other choices. The window should look similar to the following (picture 18) now:

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Text-Assistent - Schritt 2 von 3	<u>?</u> ×
Dieses Dialogfeld ermöglicht es Ihnen, Trennzeich der Vorschau der markierten Daten sehen, wie Ih	nen festzulegen. Sie können in nr Text erscheinen wird.
Trennzeichen Semikolon Komma	Aufeinanderfolgende Trennzeichen als ein Zeichen behandeln Te <u>x</u> terkennungszeichen:
-Vorschau der markierten Daten	
OXI2SV01.4.1.003 OxiDirect2	
Position	
Abbrechen	< Zurück Weiter > Ende

Please continue now. The data will be imported into a spreadsheet. For each measurement head there is a data header, giving general information about the measurement done with this head and a data section, with the measured BOD values.

Exit HyperTerminal

To close HyperTerminal use the cross in the upper right corner of the HyperTerminal window or use "Exit" at the file-menu. If a connection is still active choose "yes" to close it (

picture 19).



picture 19

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Starting HyperTerminal for OxiDirect use

With Windows 98

After all parameters of HyperTerminal have been set up and stored as a "session-file" (e.g. OxiDirect.ht), next time you want to use HyperTerminal to receive data from your OxiDirect, choose Start \rightarrow programs \rightarrow accessory \rightarrow communication \rightarrow HyperTerminal and the following window will be displayed (this is the example for Windows 98. For Windows ME, XP please see description after the Windows 98 explanation):



picture 20

Here you see the file "OxiDirect.ht" now. This file was generated as you selected "file" \rightarrow "store as..." in the HyperTerminal main window, earlier in this instructions. By a double-click on this file HyperTerminal is started with the parameters as set up and stored earlier and will be ready to receive data from an OxiDirect.

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With Windows ME, Windows XP

Start HyperTerminal and in HyperTerminal go to menu "file" \rightarrow "open..." (see picture 21)

🚵 OxiDirect2	- HyperTerm	inal			_ 🗆 ×
<u>D</u> atei Bearbe	ei <u>t</u> en <u>A</u> nsicht	A <u>n</u> ruf	Üb <u>e</u> rtragung	2	
<u>N</u> eue Verbin	idung				
Ö <u>f</u> fnen					
<u>S</u> peichern					
Speichern <u>u</u> i	nter				
Seite einrich	ten				
_ Drucken					
<u>E</u> igenschafte	en				
<u>B</u> eenden	Alt+F4				
POSILION	: 0	_			
No head	found				
Printing	done.				_
					▼
Öffnet eine boroi	its vorhandene	Sitzung			
	its vornanuene	onzuny.			//_

picture 21

Click on "open" and a window similar to the following (picture 22) will open:

Öffnen			<u>?</u> ×
<u>S</u> uchen in:	🔁 HyperTerminal	▼ ■ * 1	
3			
Verlauf Desktop	Photometer.ht	OxiDirect.ht	
Eigene Dateien			
Arbeitsplatz		open	
Netzwerkumgeb	1		
	Datei <u>n</u> ame:	OxiDirect.ht	Ö <u>f</u> fnen
	Dateityp:	Sitzungsdateien (*.ht)	Abbrechen

picture 22

Here you see the file "OxiDirect.ht" now. This file was generated in the chapter "Save parameters" at page 10, earlier in this instructions.

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With a double-click on this file HyperTerminal is started with the parameters as set up and stored earlier and will be ready to receive data from an OxiDirect.

Miscellaneous

To improve readability of the received data in the HyperTerminal main window, choose "View" \rightarrow "Font":



picture 23

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Select "TT Courier New" and set to "Standard" and "10pt", then click on "ok":

Schriftart			? ×
Schrift <u>a</u> rt: font	<u>S</u> chriftschnitt:	<u>G</u> röße:	
Courier New	Standard	10	OK
Courier Courier New Fixedsys Tucida Console Terminal	Standard Kursiv Fett Fett Kursiv	10 ▲ 11 12 14 16 18 20 ▼	Abbrechen
	Beispiel AaBb Yy Z	z	
	Sk <u>r</u> ipt: Western	•	
	-		

picture 24

Increase the HyperTerminal window to full size:

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All settings are ready now.

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Setting up the connection if a modem was installed already

The following description shows how the parameters can be set up if a modem was already installed to the computer's operating system before HyperTerminal shall be set up for data transfer from the OxiDirect:

	Verbinden mit	connect with	<u>? ×</u>		
	test01				
	Geben Sie die Ru	fnummer ein, die gewählt werden so	II:		
	Landeskennzahl:	Vereinigte Staaten von Amerika	(1) 💌		
	<u>O</u> rtskennzahl:				
	<u>R</u> ufnummer:				
	⊻erbinden über:	Standard 56000 bps K56Flex-Mo	dem 💌]	
		OK	Abbrechen	- cancel	
When picture 6					is displayed, click on

"cancel" and the HyperTerminal main window will come up (see also picture 10):

🎨 Photometer - HyperTerminal	_ 🗆 🗵
<u>D</u> atei Bearbeiten <u>Ansicht</u> A <u>n</u> ruf Üb <u>e</u> rtragung <u>?</u>	
Verbunden 00:00:03 Autom Erkenn Autom Erken	
	· · · · · · · · //



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Now choose the "file" menu and select "properties":



picture 27

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The following picture will be displayed:

	Eigenschaften von OxiDirect properties of OxiDi					
	Verbinden mit Einstellungen					
	Landeskennzahl: Vereinigte Staaten von Amerika (1) 💌					
	Geben Sie nur die Ortskennzahl ein.					
	Ortskennzahl:					
	Rufnummer:					
	Verbinden über: Standard 56000 bps K56Flex-Moderr ▼					
con	nect using: Konfigurieren					
	 Landes- und Ortskennzahl verwenden Erneut wählen, falls besetzt 					
	OK Abbrechen					

picture 28

Now you can select the appropriate COMx port at "connect using:"

Eigenschaften von <mark>OxiDirect</mark>	? ×	
Verbinden mit Einstellungen		
Photometer Symbol ändern		
Landeskennzahl: Vereinigte Staaten von Amerika (1) 💌		
Geben Sie nur die Ortskennzahl ein.		
Ortskennzahl:		
<u>B</u> ufnummer:		
Verbinden über: Standard 56000 bps K56Flex-Moderr ▼ Standard 56000 bps K56Flex-Moderr ▲ Direktverbindung über COM1		linest connection with COM-
□ Direktverbindung über COM2 Direktverbindung über COM3 □ Landes- und Ortsk Direktverbindung über COM4 □ Erneut wählen, falls besetzt		direct connection with COMx
OK Abbrec	hen	

picture 29

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At "connect using" (picture 7) choose the COMx port that you connected the OxiDirect cable to.

The window will show for example:

E	igenschaften von OxiDirect	×
	Verbinden mit Einstellungen	_
	Photometer <u>Symbol ändern</u>	
	Landeskennzahl: Vereinigte Staaten von Amerika (1) 🗾	
	Geben Sie nur die Ortskennzahl ein.	
	<u>O</u> rtskennzahl:	
	<u>R</u> ufnummer:	
	Verbinden über: Direktverbindung über COM1	
	Konfigurieren Con	nfiguration
	 Landes- und Ortskennzahl verwenden Erneut wählen, falls besetzt 	
	OK Abbrechen	

picture 30

Click on "configuration...", to set up the port parameters. The next window (picture 31) will be displayed (but most probably with different values):

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Eigenschaften	von COM1	properties of com1	? ×			
Anschlusseins	Anschlusseinstellungen					
b	aud rate <u>or</u>	bits per second or speed	1			
B <u>i</u> ts p	ro Sekunde:	19200	•			
data bits	<u>D</u> atenbits:	8	▼			
parity	<u>P</u> arität:	none	▼			
stop bits	S <u>t</u> oppbits:	1	_			
flow control	Pr <u>o</u> tokoll:	Xon / Xoff	▼			
Erw	eitert	Standard wiederh	erstellen			
	Ok	Abbrechen	Ü <u>b</u> ernehmen			

Now continue as described at "Setting up the port parameters" (see page 7).