Brief instructions
Hydras 3 Pocket application software

Hydras 3 Pocket

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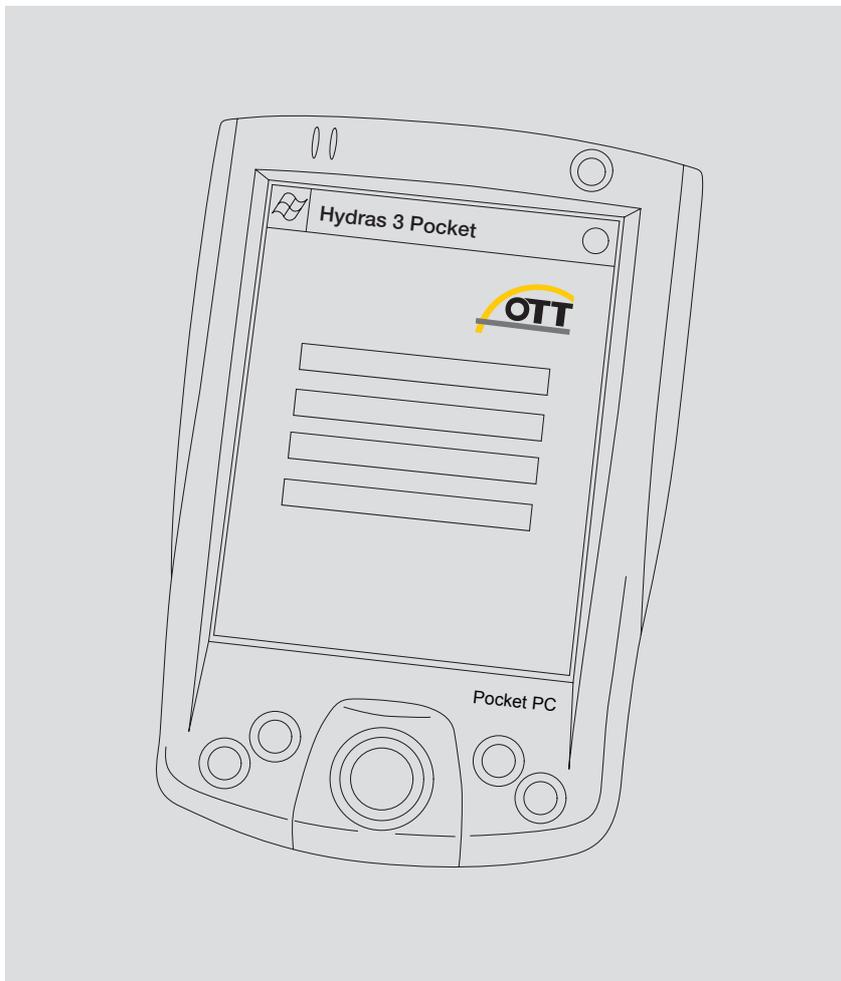
Pocket PC

We reserve the right to make technical improvements!

Scope of delivery

▶ **Pocket PC*** **with Hydras 3 Pocket**
1 Pocket PC* with Hydras 3 Pocket Software to set the operating parameters and read-out of OTT dataloggers via IrDA and RS-232 interfaces; incl. USB connecting line; incl. 230 V power supply; for details see part numbers
1 Brief Instructions

▶ **Hydras 3 Pocket**
1 Hydras 3 Pocket Software; Individual license; CD-ROM for installation via Microsoft ActiveSync
1 Brief Instructions

Part numbers

▶ **Hydras 3 Pocket**

Pocket PC* with software   56.WPH.01M.1.D
– RS-232 and infrared interface
– combined USB/RS-232 connection line
– Pocket PC operating system: German language version
– software preinstalled

Pocket PC* with software   56.WPH.01M.1.E
– RS-232 and infrared interface
– combined USB/RS-232 connection line
– Pocket PC operating system: English language version
– software preinstalled

Pocket PC* with software   56.WPH.01M.2.D
– Infrared interface
– Pocket PC operating system: German language version
– software preinstalled

Pocket PC* with software   56.WPH.01M.2.E
– Infrared interface
– Pocket PC operating system: English language version
– software preinstalled

Individual software license   56.WPH.01M.1.M

▶ **Accessories**   **Combined USB/RS-232 connection line**   97.961.085.9.5

Other accessory items for Pocket PCs can be found in the computer industry

* The scope of delivery and equipment features of Pocket PCs may vary;
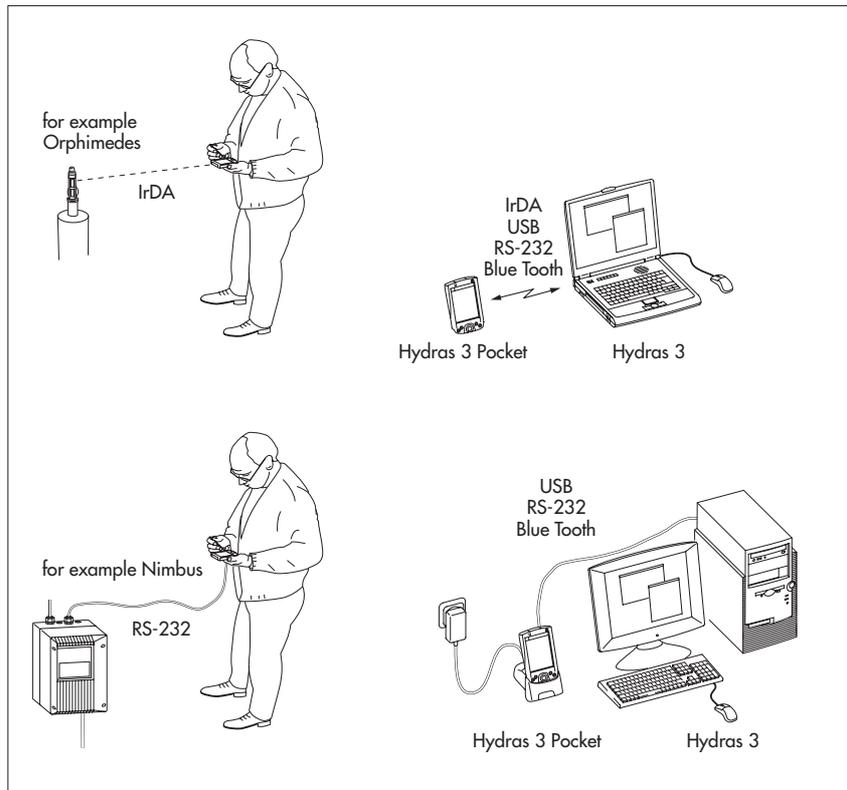 available Pocket PC versions are continuously subject to product adjustments!

Introduction

Hydras 3 Pocket expands the application spectrum of the Hydras 3 product family to include use on PDA's (Personal Digital Assistant), and especially Pocket PCs.

With the Hydras 3 Pocket, you can easily and comfortably configure, download data and display instantaneous values through the Observer function on site for sensors with an integrated datalogger or for the LogoSens station manager (for details, see below). The communication link is set up through an internal infrared interface (IrDA) in the Pocket PC, or via an RS-232 line connection. Read in measurements can be displayed in graphical form or as a table. The further processing of measured data is done on a standard PC after transferring to Hydras 3 Basic, Hydras 3 or Hydras 3 Pro.

Hydras 3 Pocket also offers the option of saving the measured values that have been downloaded in OTT raw data format or text format in separate files.

Fig. 1: Communication Options with the Pocket PC/Hydras 3 Pocket.

The overview shows which Hydras 3 Pocket functions are available for which dataloggers:

▶ Configure device   Thalimedes, Orphimedes, Nimbus, Orpheus Mini
▶ Download data   Thalimedes, Orphimedes, Nimbus, LogoSens/
                       LogoSens 2, Pluvio NADP, Orpheus Mini
▶ Observer   Thalimedes, Nimbus, LogoSens/LogoSens 2,
                       Orpheus Mini

Fig. 2: Start Screen of the Hydras 3 Pocket
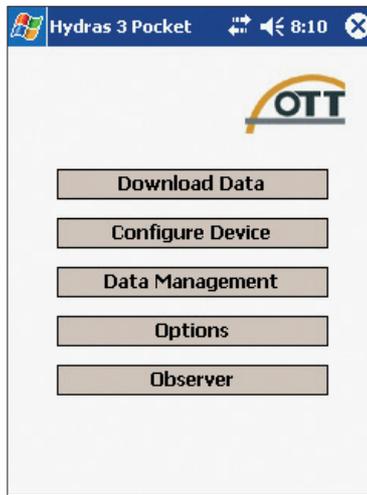
Installing Hydras 3 Pocket

Note: The procedures described in these instructions are based on the example of an HP iPAQ Pocket PC 3715 with the Windows Mobile 2003 operating system (Pocket PC 2003). If other hardware or software is used, slight modifications may need to be made. For information on how to do so, consult the Readme file on the Hydras 3 Pocket Installation CD-ROM and the handbook of the Pocket PC you are using.

Overview Installation of the delivered product

▶ HP iPAQ Pocket PC 3715* including Hydras 3 Pocket
  * or similar model of another manufacturer/ next generation model

  If you purchase a Pocket PC by OTT, you will receive Hydras 3 Pocket already preinstalled. No further installation is required in this case. If you wish to copy data from the PocketPC to a conventional PC, you must have already installed the ActiveSync synchronisation software from Microsoft onto the PC. ActiveSync is part of the scope of supply of the Pocket PC. Alternatively, ActiveSync can be downloaded at no charge from the Internet page *www.microsoft.com*.

▶ Hydras 3 Pocket (without Pocket PC)

  Preconditions for installation:
  – Pocket PC with infrared and RS-232 interface (optional); ARM compatible processor (for example, Intel® XScale™, Samsung S3C 2440); clock frequency 300 MHz; working memory 64 MB; operating system: Windows Mobile 2003 (Pocket PC 2003) or later
  – Current standard PC (desktop or tower model or notebook) with operating system Microsoft Windows® 98 or later
  – Synchronisation software Microsoft ActiveSync® as from version 3.7 or later
  – Installation file *Hydras3Pocket_PPC.ARMV4.CAB*
  – Pocket PC/standard PC line connection or link via infrared interface (optional) or Blue Tooth (optional).

Installing the Hydras 3 Pocket:
▢ Start ActiveSync on the standard PC.
▢ Set up a new partnership (guest partnership) between the PocketPC and the standard PC (e.g. via a USB or infrared connection).
▢ Copy the file "Hydras3Pocket_PPC.ARMV4.CAB" to the Pocket PC in the *Temp* directory (not in the *program directory*!).
▢ Start file "Hydras3Pocket_PPC.ARMV4.CAB" on the Pocket PC. The Pocket PC will now install Hydras 3 Pocket in the *program directory.*
▢ If necessary, create a link to the start menu (*Start* > *Settings* > *Personal* > tab *Menus* > activate ☑ *Hydras3Pocket* check box.)
▢ When first starting Hydras 3 Pocket, input the license key. The license key is located on the CD-ROM box (adhesive label).

Notes:
▶ If you do not input a license key (pressing *Cancel* when asked for the license key), Hydras 3 Pocket runs in demo mode with greatly limited functionality.
▶ Hydras 3 Pocket automatically sets the language of the user interface upon installation to the language of the Pocket PC's operating system.
  Available languages: German, English, French, Spanish, Italian, traditional Chinese, simplified Chinese. For all other operating system languages Hydras 3 Pocket uses English.

Caution! When using Windows Mobile 2003 operating system:
Recharge the batteries to your Pocket PC regularly! A completely dead main and reserve battery will completely erase the Hydras 3 Pocket software and all measurements read in (this behaviour has been fixed for Windows Mobile 2005).

Making necessary basic adjustments

Three basic settings must be made on the PocketPC to ensure that the Hydras 3 Pocket works properly.

▶ Deactivate automatic acceptance of incoming infrared transmissions:

- ◼ Click *Start* > *Settings* > *Connections* tab > *Transmit*.
- ◼ Deactivate checkbox ☐ *Receive all incoming beams*.
- ◼ Confirm the setting: press *ok*.

This setting prevents the built-in infrared interface from being continuously in use by being in a state of permanent readiness to receive any incoming transmissions.

▶ Deactivate the automatic device shut-off:

- ◼ Click on *Start* > *Settings* > *System* tab > *Power* > *Advanced* tab.
- ◼ *On battery power:* Deactivate the ☐ *Turn off device if not used for* checkbox.
- ◼ Confirm the setting: press *ok*.

This setting prevents the PocketPC from switching off by itself during active communication (the *Download data* and *Configure device* functions).

⚠ **Caution:** Turn the PocketPC off each time after use, using the on/off switch!

▶ Setting the communications channels (IrDA/RS232):

- ◼ Start Hydras 3 Pocket.
- ◼ Click on the *Settings* > *Communication* tab.

- ◼ For the Thalimedes*, Orphimedes, Pluvio NADP*, LogoSens* and Orpheus Mini dataloggers, activate the ☑ *Utilize IrDA* checkbox.
- ◼ For the Thalimedes*, Nimbus, Pluvio NADP*, and LogoSens* dataloggers, activate the ☑ *Utilize RS232* checkbox.

- ◼ Select the serial interface for *IrDA*: HP iPAQ 3715 and Siemens Pocket Loox 400: *COM2*; Dell Axim X30 and X50: *COM4*.
- ◼ Select the serial interface for *RS232*: HP iPAQ 3715 and Siemens Pocket Loox 400: *COM1*.

* These dataloggers can communicate both via the IrDA interface and via the RS-232 interface.

Assignment of serial interfaces for Pocket PC's not listed: Please refer to the hardware description (internet, handbook) of the Pocket PC being used.

Download data – Thalimedes/Orphimedes/Nimbus/ LogoSens/Pluvio NADP/Orpheus Mini

- Click on the *Download Data* button.
- – With communication channel *RS232*: Making the PocketPC/datalogger line connection (see scope of delivery/accessories).
  – With communication channel *IrDA*: Activating the datalogger (Thalimedes/Orphimedes/LogoSens only)[1] and aligning the infrared interface of the Pocket PC to the datalogger[1] infrared interface.
- Select the datalogger: Place a check in the ☑ *Thalimedes/Orphimedes/Nimbus* control box or the ☑ *LogoSens/Orpheus Mini/Pluvio NADP* control box.
- Select *Read period* or *All data*[2] or *Since last reading if station is known*.
- Starting communication: Click on the *IrDA* or *RS232* interfaces. The Hydras 3 Pocket copies the selected measured values to the PocketPC and converts them to the Hydras 3 data format. A progress bar shows how far the copying/converting process has gone. The read in values can now be transferred to Hydras 3[3] or displayed and exported via *Data Management*.

[1] see the operating instructions for the datalogger
[2] not for LogoSens/Orpheus Mini/Pluvio NADP
[3] Application software Hydras 3 Basic, Hydras 3 or Hydras 3 Pro on a standard PC

Configure device – Thalimedes/Orphimedes/Nimbus/Orpheus Mini

- Click on the *Configure Device* button.
- – With communication channel *RS232*: Making the PocketPC/datalogger line connection (see scope of delivery /accessories).
  – With communication channel *IrDA*: Activating the datalogger (Thalimedes/Orphimedes only)[1] and aligning the infrared interface of the Pocket PC to the datalogger[1] infrared interface.
- Select the datalogger: Place a check in the ☑ *Thalimedes/Orphimedes/Nimbus* control box or in the ☑ *Orpheus Mini* control box.
- Starting communication: Click on the *IrDA* or *RS232* interfaces. A screen (multiple tabs) appears with the fields to configure the device. In addition, there is the *Additional Functions* popup menu for Orpheus Mini[2] containing the functions *Observer*, *Date/Time*, *Delete Data Memory* and *Enter Password*. Use of the individual fields is described in the operating instructions of the relevant data logger.
- Store modified/new settings to the datalogger: click on the *Programming* button.
- Read in operating parameters again: Click on the *Refresh* button.

[1] see the operating instructions for the datalogger
[2] The functions *Depth to water/Water level/Pressure value set newly* in the Orpheus Mini operating program (Basic operation) are done using Hydras 3 Pocket through *Additional functions, Observer*.

Displaying downloaded values

Measurements read into the Pocket PC can be displayed graphically and numerically (tabular) for cross-checking purposes. Currently information data cannot be displayed on a PocketPC.

Displaying the measured values numerically
- Click on the *Data Management* button.
- Click on the desired sensor.
- Click on the *Numerical* button. The Hydras 3 pocket now displays a table, whereby each cell of the table displays an item of date/time information with the associated measurement.

Displaying the measured values in graphic form
- Click on the *Data Management* button.
- Click on the desired sensor.
- Click on the *Graph* button. The Hydras 3 Pocket displays the measured values in an X-Y diagram that is scaled automatically.

Enlarging the diagram section:
- Set the Zoom slider to the desired zoom factor (left: 1; right: maximum).
- Select the desired section with the upper slider. (This slider is only visible with zoom factor > 1).

Deleting downloaded values

- Click on the *Data Management* button.
- Click on the desired sensor and hold the pen. A pop-up menu opens.
- Deleting the measurements of an individual sensor: Click on *Delete File*; deleting the measured values of all the sensors: Click on *Delete All Files*.

Transferring downloaded values to Hydras 3*

- Start ActiveSync on the standard PC.
- Set up a new partnership (guest partnership) between the PocketPC and the standard PC e.g. via a USB or infrared interface).
- Start Hydras 3*. (PocketPC compatible Hydras 3 version: 2.02.0 or later)
- Select the measuring station from within the tree diagram of Hydras 3 (Basic); select the *Communication > Read/Operate* menu.
- In the *Communication window, Type*: PDA, > select *Read data: standard*. The settings for the protocol type and communication channel are not relevant.
- Press *Start*.
- *Select the files to be transferred*.
- Press *Start*. Hydras 3 copies the measured values from the Pocket PC to the standard PC. The data are then available in the raw data pool.

* Application software Hydras 3 Basic, Hydras 3 or Hydras 3 Pro on a standard PC

Displaying Instantaneous Values –
Thalimedes/Nimbus/LogoSens/Orpheus Mini

- ■ Click on the *Observer* button.
- ■ – With communication channel *RS232*: Making the PocketPC/datalogger line connection (see scope of delivery /accessories).
  – With communication channel *IrDA*: Activating the datalogger (Thalimedes/ Orphimedes/LogoSens only)* and aligning the Pocket PC infrared interface to the datalogger* infrared interface.
- ■ Select the datalogger: Place a check in the ☑ *Thalimedes/Orphimedes/ Nimbus* control box or in the ☑ *LogoSens/Orpheus Mini* control box.
- ■ Starting communication: Click on the *IrDA* or *RS232* button. The datalogger starts an instantaneous measurement. When the instantaneous measurement is finished, the screen displays the instantaneous value for all sensors and the date/time of the datalogger and of the Pocket PC. Current observer values can be entered in the fields behind the instantaneous values. Hydras 3 Pocket stores these observer values as info data on the PDA (not in the datalogger).
- ■ When an observer value is input: Click on the *Store (PDA)* button.
- ■ Restart the instantaneous measurement: Click on the *Refresh* button.

* see the operating instructions for the datalogger

Exporting downloaded values

The Hydras 3 Pocket offers the option to save the measurements that have been read in OTT raw data or text format in separate files for each sensor. The export format is selected under *Settings*.

Selecting the export format
- ■ Click on the *Settings* > *Export* tab.
- ■ Select the file format *Spreadsheet* or *Rawdata* on the *Export File Format* screen. The file format *Spreadsheet* requires additional settings: *Field Separator*, *Decimal Separator*, *Date Format* and *Time Format*. The selected settings are shown in the *Preview* field as they will appear.

  Possible date formats (placeholders):

d	Day of the month. Single-digit day details have no leading zeroes.
dd	Day of the month. Single-digit day details have one leading zero.
ddd	Abbreviated name of the weekday.
dddd	The full name of the weekday.
M	The month in numeric form. Single-digit month details have no leading zeroes.
MM	The month in numeric form. Single-digit month details have one leading zero.
MMM	Abbreviated name of the month.
MMMM	Full name of the month.
y	The year without the century. If the number of the year is less than ten and the century is not given, it will be shown without a leading zero.
yy	The year without the century. If the number of the year is less than ten and the century is not given, it will be shown with a leading zero.
yyyy	The four-digit number for the year, including details of the century.

/	Placeholder for the default separator for date details. (See *Settings* > *System* tab > *Regional settings* > *Date* tab)

Possible time formats (placeholders):

h	The hour in 12-hour notation. Single-digit hour details have no leading zeroes.
hh	The hour in 12-hour notation. Single-digit hour details have one leading zero.
H	The hour in 24-hour notation. Single-digit hour details have no leading zeroes.
HH	The hour in 24-hour notation. Single-digit hour details have one leading zero.
m	The minute. Single-digit minute details have no leading zeroes.
mm	The minute. Single-digit minute details have one leading zero.
s	The second. Single-digit second details have no leading zeroes.
ss	The second. Single-digit second details have one leading zero.
:	Placeholder for the default separator for time details. (See *Settings* > *System* tab > *Regional Settings* > *Time* tab)

Exporting measured values
- ◼ Click on the *Data Management* button.
- ◼ Click on the desired sensor*.
- ◼ If necessary: Place a check in the ☑ *Delete file after export* control box.
- ◼ Click on the *Export* button.
- ◼ In the *Save as* screen, input/select Name (without suffix), folder (directory), location (PocketPC main memory or File Store; HP iPAQ Pocket PC 3715 only). It is not possible to enter a type (the type is determined by the selection of the export format).
- ◼ Click on the *OK* button.

* alternatively: do not select a sensor, and then click on *Export All*

Example of formatting exported measured values:
25:10:2004;00:05;499,1
25:10:2004;00:10;499,6
25:10:2004;00:15;499,9
25:10:2004;00:20;500,2
25:10:2004;00:25;500,1
25:10:2004;00:30;500,2
…

Note: Exported measured values can not be opened with Pocket Excel.

Displaying software version of Hydras 3 Pocket

- ◼ Click on the *Settings* > *Info* tab.
- ◼ The screen displays the current version of Hydras 3 Pocket being used.

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