INTEGRA

AMBILL[®] smart Suite 2

Parametrisation, reading and scanner software. Sending, receiving and managing consumption data from meters.

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1 Safety

1.1 Intended use

Improper or non-intended use of devices such as computers or Android handheld devices may potentially compromise operational reliability of the device. The manufacturer accepts no liability for any resulting personal injury or material damage.

The AMBILL[®] smart Suite 2 software package is designed and solely intended for searching, to some extent parametrising and configuring, as well as reading meters by various manufacturers and for various media (water, gas, electricity, etc.). For further information, please refer to the licence agreement.

1.2 Notes on safety rules and symbols

The devices, such as computers or Android handheld devices, are designed to meet the latest safety requirements. They were tested and delivered in a condition that ensures safe operation. Improper or non-intended use of the devices can, however, be dangerous. Therefore, pay particular attention to the safety instructions within this manual, which are always shown by the following symbols:

NOTICE

NOTICE indicates a hazardous situation which, if not avoided, could result in a change of the function and/or loss of data.



NOTE

NOTE indicates helpful tips and recommendations, as well as information for efficient and trouble-free operation.

See document VDxxxx, page ## or See section XX on page ## or WEB link to QR code lf available QR code

1.3 About the operating manual

The manufacturer reserves the right to make changes to technical data without prior notice. The latest information and versions of this operating manual can be requested from your local dealer.

NOTICE

The manufacturer assumes no liability if the instructions and procedures described in this manual are not followed!

NOTICE



This installation manual is intended for qualified personnel and therefore does not include basic working steps. Before operating the equipment or system, this installation and operating manual must be completely read and understood.

Please retain this manual for future reference!

1.4 Returning Android handheld devices or computers

- Never send a device/system such as a computer or Android handheld device with the installed AMBILL[®] smart Suite 2 product back to Aquametro AG unrequested and/or without the relevant notices.
- Costs incurred due to unannounced returns will be charged to the delivering company or the operator.



If you wish to return a device to be checked or repaired, please contact Aquametro AG or your nearest Aquametro AG distributor.

2 Scope of Supply and Accessories

2.1 Licence agreement

Licence agreement of Aquametro AG, Ringstrasse 75, 4106 Therwil, Switzerland The original document is in German.

1. With the sale of the copyrighted "AMBILL[®] smart Suite 2" product, Aquametro AG grants the buying public a simple, non-exclusive use licence, in a location specified in the purchase agreement, in accordance with the regulations for the intended use of the AMBILL[®] smart Suite 2 software and for the operation of the sold hardware in the agreed installation location as set out below.

This licence entitles the licence holder to install and use the software product on an Android handheld device within the scope of their own requirements. In addition, the licence holder may make backup copies of the software product, provided that the use thereof is and remains limited to the licence holder's own requirements and the specific Android handheld devices.

Subsequently, this also applies correspondingly to the "AMBILL[®] smart PC" program, which is installed on computers or laptops with Microsoft Windows operating systems.

2. The intended use of the software is the parametrisation and recording of various modules specified in the program by means of the purchased Android handheld device for the customer's own use.

The intended use includes the use in various locations of the same business of a buyer, provided that the software is used exclusively by employees of the licence holder or a person authorised by the licence holder and exclusively within the scope of an activity for the licence holder.

- 3. The licence cannot be shared and covers the software package (incl. documentation) as a whole. The licence holder is not entitled to use any parts of the software package for any other purpose than that stated in items 1 and 2. In particular, they are not permitted to transfer any parts of the software package or to use them for any other purposes than those stated (e.g. use in the licence holder's proprietary developments).
- 4. If the product was supplied together with components whose copyright is not owned by the licenser, but by a third-party provider, then the respective provisions and licence agreements of the third-party provider shall apply to these components.
- 5. If the licence holder wishes to transfer their rights to use the software product to a third party, they must first obtain the consent of Aquametro AG. Such consent shall only be denied for important reasons. Important reasons include the transfer of the software without the transfer of the hardware that the software serves, the withholding of a part of the software, and the missing consent of the recipient to take over the licence agreement with all its rights and obligations. Such a transfer must always be made in full and include all and any components, documents etc. supplied with this software package.

If the software product is an update of an existing software product, a transfer can only take place if the original product to which this update refers and any other updates that are based on this original product are also transferred.

With the exception of the aforementioned purpose, the licence holder is not entitled to transfer, sell or distribute any rights or licences to use the software product. In particular gratuitous or non-gratuitous leasing or renting is not permitted.

- 6. By entering into this licence agreement, the licence holder agrees that the licenser is the owner of and has the copyright to the software product (including, but not limited to all files, examples, documents in printed or machine-readable format that constitute integral parts of the software product), as well as all copies of the software product. In particular, the licence holder undertakes not to reverse engineer, decompile or disassemble the software product, or to draw conclusions with respect to the structure or the methods used and the algorithms of the software product in a similar manner, be it directly or with the help of a third party.
- 7. The licenser's warranty ends 12 months after the date of purchase and is limited, at the licenser's option, either to the reimbursement of the purchase price, or to the repair or replacement of the product. Any further warranty of the licenser for the product, incl. all supplied components, documents in printed and machine-readable format, etc. is expressly excluded. In particular, the licenser does not assume any liability whatsoever for any damage or consequential damage (in particular damage resulting from loss of profit, interruption of operation, interruption of production, personal injury, loss of data or information or any other loss) that has originated in connection with the product, when using the product or careless handling during use and maintenance thereof, incorrect operation or deficient maintenance. Mandatory statutory provisions excepted.
- 8. Apart from that, the general terms and conditions of Aquametro AG apply. In the case of discrepancies between these provisions and the general terms and conditions, the provisions of this licence agreement shall have priority.

2.2 Scope of the product

Standard:

- AMBILL[®] smart Suite 2 software
- Operating manual (only in electronic format) -

Optional:

- Pre-installed on Android handheld device (fee-based service and device)
- Installation and commissioning on site (fee-based)

2.3 Programs

The AMBILL[®] smart Suite 2 is comprised of four different programs:

AMBILL[®] smart Config

Program for configuring peripheral devices as well as managing different settings and options for reading.

AMBILL[®] smart Param

Is used for parametrising aquaradio[®] smart radio modules and aquaconcept[®] system modules, which can be connected to different consumption meters by Aquametro AG.

AMBILL[®] smart Scan

Visualising aquaradio[®] smart and other radio modules during or after the commissioning of meters.



AMBILL[®] smart Read & AMBILL[®] smart PC (2-part)

AMBILL[®] smart Read

Is used for wireless readout (aquaradio[®] smart radio modules, wireless meter in accordance with the OMS standard) and for infrared readout by means of an optical reading head (aquaconcept[®] system modules).

Manual entry of meter readings is also possible (manual reading).

The meter data is recorded by means of the AMBILL[®] smart PC program and synchronised.

AMBILL[®] smart PC

Saving of the data in list format for further use on a computer or laptop with a Microsoft Windows operating system. The meter data is synchronised by means of the AMBILL[®] smart Read program.

2.4 System requirements

For the installation and operation of the software, the following hardware and software requirements are assumed:

2.4.1. Android handheld device

- Android operating system (from 4.1.2 "Jelly Bean" to 6.0 "Marshmallow")
- Memory requirement: at least 100 MB must be freely available
- Bluetooth functionality for using a Bluetooth parametrising head and/or wireless receiver

2.4.2. Desktop Computer (for using AMBILL[®] smart PC)

- Microsoft Windows 7/8/10 operating system
- Microsoft .NET Framework 4.5
- Memory requirement: at least 100 MB must be freely available

3 Installation

NOTICE

For devices containing batteries or rechargeable batteries, the state of charge must be checked prior to starting work.



- Risk of malfunctions or loss of data!
 - Use charging devices supplied or recommended by the device manufacturer for recharging the batteries.
 - Replace the batteries as and when required

3.1 Download and installation

Open the AMBILL[®] smart Suite 2 landing page by clicking on the following link:

http://www.aquametro.com/SmartSuite

If you are planning to use AMBILL[®] smart Read, we recommend that you start installing the AMBILL[®] smart PC program (see Figure 1).



Click on the respective file to install it on your devices and follow the instructions on the screen.



3.1.1. Installation on Android handheld device

After starting the installation of the APK file and therefore the **AMBILL**[®] **smart Suite 2**, you will see the following images on your handheld device:

→ Confirm [Install]	Ongoing installation	➔ Installation completed			
AMBILL smart Suite 2 Do you want to install this application? It will get access to:	AMBILL smart Suite 2	AMBILL smart Suite 2			
 take pictures and videos precise location (GPS and networkbased) read phone status and identity modify or delete the contents of your SD card read the contents of your SD card 					
CANCEL INSTALL Figure 3	Figure 4	DONE OPEN Figure 5			

Following the installation, you will find the different program parts of the $AMBILL^{\mbox{\tiny B}}$ smart Suite 2 in your app overview.

3.1.2. Installation on desktop computer or laptop

The images and texts below will guide you through the installation of the **AMBILL**[®] **smart PC** Windows program on a computer or laptop.







3.1.3. Installation and configuration instructions



Once the AMBILL[®] smart Suite 2 has been installed on your devices, the fee-based **AMBILL[®] smart Read** program part can be used to read up to three meters for test purposes.

For licence fees for more than three meters, please contact a sales representative, your authorised Aquametro AG dealer or your distributor.

- As a requirement for connecting the computer/laptop with the Android handheld device, both devices must have a functioning Internet connection.
- Apart from that, to exchange data, both the Android handheld device and the computer must be switched on and the AMBILL[®] smart PC program must be started.

When opening **AMBILL**[®] **smart PC**, the dialogue below appears until a correct connection with the Android handheld device has been established once without errors.

→ Click [Next] to co	onfirm	
Gettin	Ing Started Welcome! You almmost finished the installation! To fully use the application you have to follow the next few steps: Install AMBILL smart Suite on your smart pone Click 'Next' to proceed. Next	
	Figure 14	

You can skip this step if the installation on the Android handheld device has already been completed.							
Scan the code from the screen or via the link entered in the Internet browser on the Android handheld device as described in step 2 (Figure 15) to start the installation.							
→ Click [Next] to confirm							
★ Click [Next] to confirm Cetting Started Install AMBILL smart suite on your smart pone If you've already installed AMBILL smart Suite on your smart phone you can skip this point. Step 1 Android > Settings >> Security >> Allow 'Unknown Sources' Step 2 On your Android Smart Phone, scan the QR code below with a Barcode App. Dr. Open an Intermet Browser on your smart phone and enter the web address below manually: 'http://www.aquametro.com/SmartSuite.apk' Berform a download and install the app. Click 'Next' to proceed.							
Previous							
Figure 15							



NOTE

Do <u>**not</u>** scan the QR code shown in the following step 2 in this manual! Scan the code that is shown during this step on your personal computer/laptop screen.</u>

During the installation, the program generates the code that is relevant to you.

The generated QR code is displayed on the screen of the computer/laptop.								
Scan the QR code on the screen with the Android handheld device. The handheld device searches for the connection, confirms it and then changes to the start screen of the AMBILL [®] smart Read.								
Getting Started								
Create a	connection to your smart phone	A						
Schritt 1 Take your sma	art phone and start 'Smart Read'.							
Sobritt 2								
Scan the follow	vina OR Code:							
Schritt 3								
You can now i Details can be	mport meter data and synchronize it with your smart phone. found in the manual (see menu Help/Manual).							
Previous		Close						
	Figure 18		2					





Program for configuring peripheral devices as well as managing different settings and options for reading.

Screen icons



Manage wireless keys

Existing keys



Add wireless key

Information on the version

Setting up a wireless receiver or infrared reading head

Various devices are suitable for receiving or transmitting data between the meter and the evaluation. These must first be set up on the Android handheld device. The connection is established via Bluetooth.

The following devices are supported:

aquaradio [®] smart wireless receiver	Is required to receive data (telegrams) from wireless meters and radio modules. → For setup, see section 3.2.1.	Item No.: 80542
K01-Blue reading head	Is required to parametrise and read aquaconcept [®] system modules. → For setup, see section 3.2.2.	Connect TX RX Charge Confect on 5V 00:80:25:07:14:74
IZAR OH BT reading head	Is required to parametrise aquaradio [®] smart radio modules. → For setup, see section 3.2.3.	Item No.: 80544

3.2.1. Setting up a Bluetooth wireless receiver











The further steps for selecting and testing are identical to section 3.2.1 (page 17) and are to be understood correspondingly as shown in Figures 21-31 (pages 17-18).

3.2.3. Setting up a Bluetooth reading head of the type "IZAR OH BT"



The further steps for selecting and testing are identical to section 3.2.1 (page 17) and are to be understood correspondingly as shown in Figures 21-31 (pages 17-18).

4 Operation 4.1 AMBILL[®] smart Param

Is used for parametrising aquaradio[®] smart radio modules and aquaconcept[®] system modules, which can be connected to different consumption meters by Aquametro AG.

Screen icons



Reader selection



Checking of the parametrisation by means of wireless communication

Switching to expert mode



Information on the version

4.1.1. Pre-selection of the devices for parametrisation

➔ Open Smart Param	 Pre-select parametrisable devices. If only one parametrising head is registered, this screen does not appear. 	→ Check and, if required, select the reading head and options		
	⊁ 👫 ⊿ 81% 🖬 08:31	le		
	Smart Param	aquaconcept 💿 :		
	aquaconcept	Optical Head (aquaconcept)		
Smort Suite 2	- AQUAREADER - AQUAONLINE	Type Bluetooth P&E		
	- AQUATARIF - AMBILL 230 CS	Address 00:80:25:07:14:74		
Smart Config Smart Param Smart Read	aguaradio smart	Auto Save		
Smart Scan	- SMART EXTERN PULSE	Image readout Save the readout images (JPG) to /storage/ emulated/0/Aquametro/SmartSuite/Param/ Images		
		Text readout Save the readout as TXT file to /storage/ emulated/0/Aquametro/SmartSuite/Param/ ReadLogs		
		Debug		
		Communication Log (IEC) Save the communcation log as CSV file to /storage/emulated/0/Aquametro/ SmartSuite/Param/ComLogs		
Figure 38	Figure 39 Figure 40			

4.1.2. Reading & checking of aquaconcept[®] system module



Example of module data read → Read [Daily Values] Example of current values by aquatarif (not all modules) read by aquatarif * 🗊 📶 41% 🗖 16:57 ľ * 🗊 📶 42% 📕 16:56 ľ * 🗊 📶 42% 📕 16:56 0 Ö aquaconcept aquaconcept Ö aquaconcept PARAMETRIZE VERIFY PARAMETRIZE VERIFY PARAMETRIZE VERIFY DAILY VALUES DAILY VALUES DAILY VALUES \odot \odot \odot Modulname Modulname aquatarif aquatarif Serial Number Serial Number 143568 143568 Additional Info 1 Additional Info 1 DN 20 DN 20 Additional Info 2 Additional Info 2 Index Index 00055.000 m3 00055.000 m3 **Billing Day 1 Billing Day 1** Figure 44 Figure 45 Figure 46

4.1.3. Parametrisation of aquaconcept[®] system module



Example of read list with device parameters (here: aquatarif)	→ Select parameters	 → Change parameter value → Confirm entry with [OK] 		
ال 🕹 🛱 🖌 🕹 🕞 🖬	🖃 🔭 🛜 📶 41% 📕 16:57	✓ ★ 第 .41 41% ■ 16:58		
aquaconcept 💿 :	aquaconcept 🔯 :	← Edit Parameter		
PARAMETRIZE VERIFY	PARAMETRIZE VERIFY	Allowed Characters [A-Z] [a-z] [:*]		
aquatarif	aquatarif	Zusatzinfo 1		
Meter Number	Meter Number	РМК 25 ОК		
143568	143568			
Additional Info 1	Additional Info 1			
DN 20	DN 20			
Additional Info 2	Additional Info 2			
		1 2 3 4 5 6 7 8 9 0		
Billing Day 1	Billing Day 1	qwertyui op		
31.03	31.03	asdfghikl		
Billing Day 2	Billing Day 2			
30.09	30.09	🕇 z x c v b n m 🖾		
Time Base	Time Base	Sym T		
0060	0060			
Figure 50	Figure 51	Figure 52		



4.1.4. Parametrisation of the aquaradio[®] smart radio module





4.1.5. Expert mode (only aquaradio[®] smart)





4.2 AMBILL[®] smart Scan

Visualising aquaradio[®] smart and other radio modules during or after the commissioning of meters.

Screen icons



Switch the connection with the wireless receiver on or off

Sorting of received meters



Filter function

Filter function active

Sorting active

4.2.1. Receiving meter data

➔ Open Smart Scan	➔ Provide and switch on Bluetooth wireless receiver	➔ Establish connection with the wireless receiver
Smart Suite 2 Smart Suite 2 Smart Config Smart Param Smart Read	Runne Reserved	 Smart Scan Smart Scan Image: Scale of the second sec
Figure 70	Figure 71	Figure 72



4.2.2. Sorting function



4.2.3. Filter function





Example: E-mail dispatch	Example: Data view			
∥ 🖹 × 🖾 🗄				
An V Figure 86	An 🖸 🗸			
Betreff Zählerliste (erstellt mit AMBILL sma	Betreft Zähler: 44575314, AMT, F0 MeterAddress: 44575314 < Medium: Wasserzähler			
MeterList.csv 6 KB — Die Zählerliste anbei wurde mit AMBILL smart Scanner am 2015-10-20_081242 erstallt	VersionCheck: 240 Manufacturer: AMT Battery Lifetime: 0 Signal Strength: 29 Reception Time: 19.10.2015 11:17:20			
Die csv Datei kann mit Microsoft Excel oder einer Alternative geöffnet	Volumen 8995 [I] Unit: 0 Storage: 0 Tariff: 0 Dif/Vif: 0C/13 Message: BCD8Digit Type: TypeA IntegerBCD			
	Volumen 8995 [I] Unit: 0 Storage: 1 Tariff: 0 Dif/Vif: 4C/13 Message: BCD8Digit			
Figure 89	Figure 90			

4.3 AMBILL[®] smart Read (2 parts)

AMBILL[®] smart Read

For reading aquaradio[®] smart radio modules and aquaconcept[®] system modules. Manual entry of meter readings is also possible (manual reading). The values are read and/or synchronised in conjunction with the AMBILL® smart PC program.

AMBILL[®] smart PC

Saving of the data in list format for further use on a normal computer or laptop with a Microsoft Windows operating system. The values are read and/or synchronised in conjunction with the AMBILL[®] smart Read program.

Filter shows "completed"

Information on the version

Filter shows "open"

Screen icons



Connect with wireless receiver



Start infrared readout

Synchronise



Filter deactivated

AMBILL[®] smart Suite 2 has a simple meter administration including an interface with a superordinate system. The interface for the import and export is the same. Data entry and processing with MS Excel or with a text editor, which is able to create files in "txt" format delimited by tabs, can easily be done and is described in more detail in section 4.3.1 "Creating a route" (page 33).

Such files can be transferred to an administration software for further use. If you have any questions regarding this issue, please contact Aquametro AG.

NOTE

In the AMBILL[®] smart PC program data is only displayed.

4.3.1. Creating a route

Field description of the importfile

The Aquametro tab interface is a simple text file where the different fields are delimited by tabs. The import and export files have the same structure.

Excel column	Field Description	Field name In the file	Mandatory field	Note
А	Meter number	Meter Number	Х	Unique meter number or identifier
В	Radio module number	Radio Number		Only available for compatibility purposes
С	Customer name	Name		
D	House number/street	Address		
Е	Comment	Note		Notice regarding the meter
F	Previous reading	Old Index		Can be empty
G	Previous consumption	Old Consumption		Can be empty
Н	Current reading	New Index		
I	Energy type of the measurement	Energy Type		Valid values: 1 = Electricity 2 = Gas 3 = Energy 4 = Water 5 = Waste water
J	OBIS code OBIS co			Valid values: 1.8.0 = Water Further codes depend on the meter
К	ReadoutType Reading T			Valid values: Empty = Manual reading, IR/CS 0 = Manual reading, IR/CS 3 = Aquaradio Smart
L	Date of the reading	Readout Date		Export field (YYYYMMDDhhmmss)

X: Mandatory field

For further information, please refer to the Appendix, section 9.2 "Technical specification of the route list (import and export)" on page 49.

4.3.2. Creating an import file

A route list with all measuring points can easily be created and maintained in MS Excel.

F	File Home Insert Page Layout Formulas Data Review View											
ľ	Cut	Calibri	Ŧ	11 · A	≡ =	·	🚔 Wrap Text	Genera	al	▼		
Pa	ste 🛷 Format Pair	nter B <i>I</i> <u>U</u>	•	• 🔕 • A	• = =		崖 📴 Merge & Cen	ter 🝷 🕎 🔻	% *	Condition Formatti	onal Format ng ∗ as Table ∗ St	Cell Insert D yles * *
	Clipboard	- Gi	Font		- Fa	Alig	nment	G.	Number	Gi .	Styles	(
	G7	- (*	f _x									
	А	В	С	D	E	F	G	н	L. L.	J	К	L
1	Meter Number	Radio Number	Name	Address	Note	Old index	Old Consumption	New Index	Energy Type	OBIS code	Reading Type	Reading Date
2	4325022		Smith	Ringstr. 75	Im Keller	110	20		4	1.1.8.0	0	
3	4325045		Meyer	Ringstr. 76	Schacht	1200	560		4	1.1.8.0	0	
4	4550003		Muller	Ringstr. 77	In Garage	30	7		4	1.1.8.0	0	
5												
6												
	Figure 91											

Example of a route list with the column designations in the header in MS Excel (for the description of the columns cf. section 4.3.1 "Creating a route", page 33).

To generate an import file from an Excel table, the generated file must be saved in text format.

File	Home	Insert Page Layout	
2 🔜 2 🔊 6 🍯	iave iave As Open	Informatic C:\Users\Aquame	
	Figu	ire 92	
→ File → Save As (Header can als	o be saved))	

	Documents Music File name: Routenliste.txt Save as type: Text (Tab delimited	· · · · · · · · · · · · · · · · · · ·	
	Authors: dama	Tags: Add a tag	
	🔿 Hide Folders	Tools 🕶 Save Cancel	
		Figure 93	
➔ File name:	Routelist.txt (exam	ple)	
➔ Save as typ	e: Text (tab-delimited)	

Several route lists can be created. However, for each reading only one defined route can be active. Other routes must then be imported again.

4.3.3. Import to the computer/laptop

In order to be able to import an Aquametro tab import file (section 4.3.1 "Creating a route", page 33) to the Android handheld device, the AMBILL[®] smart PC program must be installed on a computer or laptop (section 3.1.2 "Installation on desktop computer or laptop", page 10).



	mort DC						а	ana
The smart way	to vour meter da	ata						metro
								\sim
	Meter			Index	Consumption	Index Energy		Obis Readou
Load Data from File	Address	Name	Address	Old	Old	New Type	Notes	Code Type
	44688074	Anke Baer	Hauptstrasse 33	503	33	Water	Schlüssel bei Abwart	Readout
	206148	Julia Hermann	Blumenstrasse 43	250	50	Water	Keller	Aquaradi
	6407467	Lucas Probst	Steinweg 85	780	102	Water	Waschküche	Readout
	4325010	Stephan Hirsch	Avent Data Import		4378	Water		Aquaradi
	42059249	Stefanie Baumgärtner	Baum		84	Water	Keller	Aquaradi
	42062710	Lea Schuhmacher	Busch Importe	ed records: 14	3634	Water	Gartenhaus	Readout
	39325942	Alexander Weissmüller	Blattg		44	Water	Schlüsselkasten	Aquaradi
	2998764	Kevin Glockner	Staud		975	Water		Aquaradi
	5286827	Klaudia Metzger	Kiesel	OK	95	Water		Aquaradi
	4532217	Ulrich Bauer	Kiesel	UK	95	Water	Waschküche	Aquaradi
	12186309	Angelika Kästner	Rosenwey 3	17	95	Water	Keller	Aquaradi
	29987624	Sandra Fink	Wiesenweg 33	3730	12	Water	Abwart kontaktieren	Readout
	42685958	Katarina Kortig	Floor 13	3730	12	Water		Readout
	5016548	Christine Ehrlichmann	Rubinienweg 77	3730	12	Water	2. UG	Readout
Save Data to File								
•								۰.
							Total: 14 Ope	n: 14 🛛 Done: 0 📃 🦯
c.			Figu	re 95				

4.3.4. Export from the computer/laptop

The export is carried out the same as the import (section 4.3.3, page 35), but in reverse order.

AMBILL smart PC - v2.1.0 File Extras Help AMBILL, The smart was	Smart PC. Save meter list to file Save meter list to file Down to be a computer > Local Disk (C:) > Data	▼ 4y Search Data		aqı N	ua netro
Load Data from File	Organize ▼ New folder	Date modified Type	Energy Type	Notes Obis	s Readou Je Type
	Desktop Routenliste.txt Desktop Downloads Mecent Places	4/26/2016 9:16 AM Text	Docum Water Water Water	Schlüssel bei Abwart Keller Waschküche	Readout Aquaradi Readout
0	Libraries		Water Water Water	Keller Gartenhaus Schlüsselkasten	Aquaradi Aquaradi Readout Aquaradi
	📔 Pictures 🛃 Videos		Water Water Water	Waschküche	Aquaradi Aquaradi Aquaradi
	File name: ExportAllData_2016-07-11.txt Save as type: Routenlist (*.txt)		▼ Water Water Water	Keller Abwart kontaktieren	Aquaradi Readout Readout
Save Data to File	Hide Folders	Save	Water	2. UG	Readout
	_			Total: 14 Open: 14	Done: 0
 Figure 96 With the [Save] button, the displayed file is saved by the program in text format in a freely chosen location under a specified name and date. 					
The program reports the completed export					

Figure 97



4.3.5. Synchronising data between the Android handheld device and the computer



4.3.6. Manual reading and correction of a meter reading





4.3.7. Electronic reading with reading head







4.3.8. Wireless reading



4.3.9. Filter function

A filter can be used to set which meters the user wants to display.





4.3.10. Search function

The search function can be used to find specific meters. A search term checks for matches regarding the address, name or meter number.





5 Maintenance and Repair

5.1 Manual

This manual was created for the software version 2.0 and higher. Deviations may occur in future software versions.

5.2 Copyright

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5.3 Exclusion of liability

Aquametro AG shall not be responsible for any losses, injury or damage of any kind. This applies, among other things, to direct, indirect, special and consequential damage arising from the present manual on the AMBILL[®] Smart Suite 2 software and from the use thereof, unless Aquametro AG or its vicarious agents had acted with intent or gross negligence. The user shall be responsible for protecting their systems against virus attacks or any other command sequences that are damaging to their systems, by installing respective security programs.

Furthermore, Aquametro AG shall provide no assurances or warranties with respect to the correctness, functionality or performance of any third-party software, which may be impaired in connection with the software packages sold by Aquametro AG.

5.4 Service

Should you have any further questions beyond this manual or require support, please contact our support service. They will be happy to assist you.

5.5 Updates and spare parts

NOTICE

Use of wrong spare parts.

Risk of malfunctions or loss of data!

• Use only original spare parts, supplied by Aquametro AG.

5.5.1. Spare parts

For spare parts (such as wireless receiver, optical head, Android handheld device), please contact your authorised Aquametro AG dealer or local distributor. For contact information, please visit our website at http://www.aquametro.com.

5.5.2. Updates

The AMBILL[®] smart Suite 2 offers newly available updates when opening the program. It is the sole responsibility of the user to install and use these updates. Apart from that, the exclusion of liability (section 5.3) also applies to any updates of the software package made available.

We recommend that you do not install updates while taking a reading with AMBILL[®] smart Read, but instead after all the read data has been transferred to the PC.

When AMBILL[®] smart PC has been updated and started, please start an app on the Android handheld device (e.g. AMBILL[®] smart Scan) in order to receive a notification of an available update on the handheld device, and subsequently install this update.

6 Troubleshooting

Should unusual error messages or operating conditions occur when using the AMBILL[®] smart Suite 2, please contact your authorised sales representative, your distributor or Aquametro AG.

6.1 Installation

Error indications	Possible causes	Course of action
Installation program on the	Android version is lower than	Update the Android version to
Android handheld device	version 4.1.2 "Jelly Bean"	version 4.1.2 or higher
reports "Parsing error".		

6.2 AMBILL[®] smart Read

Error indications	Possible causes	Course of action
Synchronisation not possible via the Android handheld device.	 No Internet connection with the PC or Android handheld device No SIM card, SIM card without data plan, no WLAN configured or WLAN not available 	 Handheld device: Establish Internet connection by means of WLAN or SIM card Computer: Start AMBILL[®] smart PC
		 Program Ensure that there is an Internet connection
AMBILL [®] smart Read: Synchronisation error: Destination host 'xxx' currently not connected	 No connection with AMBILL[®] smart PC possible 	 Computer: Start AMBILL[®] smart PC program Ensure that there is an Internet connection

6.3 AMBILL[®] smart Scan

Error indications	Possible causes	Course of action
No connection with the wireless receiver	Wireless receiver is not switched on	 Ensure that the wireless receiver is switched on Ensure that the wireless receiver is charged
 Connection with the wireless receiver is off, the rechargeable battery of the wireless receiver is empty The wireless receiver is too far away 		 Ensure that the wireless receiver is charged Ensure that the wireless receiver is near the handheld device

6.4 AMBILL[®] smart Param

Error indications	Possible causes	Course of action
Error message:	Module could not be read	Generally:
Operation failed:		 Ensure that the optical head
The remote device		was placed on a module
did not respond		
with a valid IEC		Aquaconcept module:
Identifier		 Ensure that the head has been aligned correctly
Error message:	Optical head not switched on	 Switch on optical head and
Operation failed:		ensure that it is charged.
The CommChannel was		
not open		

7 Decommissioning

7.1 Uninstallation

Remove the programs from your Android handheld device or PC in accordance with the instructions provided in the manuals of the respective manufacturer.

7.2 Disposal

At the end of the life cycle, products such as Android handheld devices should be disposed of according to local regulations regarding waste recycling or ______ disposal.

Batteries and rechargeable batteries shall be recycled separately.



The separate collection and recycling of used products will help to conserve natural resources, and ensures that they are disposed of in a way that does not cause damage to the environment and nature.

8 Technical Data

See section 2.4 "System requirements" (page 7).

9 Appendix

9.1 Definition of terms

Android	Operating system for smartphones or tablets
Windows [®]	Operating system of the Microsoft [®] Company

9.2 Technical specification of the route list (import and export)

The route list must be a CSV text file that uses the tab as a column delimiter.

Column	Field name In the file	Type	Mandatory field	Note
1	Meter Number	Integer	Х	Unique meter number or identifier
2	Radio Number	Integer		Only available for compatibility purposes
3	Name	String(100)		
4	Address	String(100)		
5	Note	String(2000)		Notice regarding the meter
				Can be empty
6	Old Index	Float		Accepts both full stops and commas as decimal separators
7	Old Consumption	Float		Can be empty Accepts both full stops and commas as decimal separators
8	New Index	Float		Export field
9	Energy Type	Integer		Valid values: 1 = Electricity 2 = Gas 3 = Energy 4 = Water 5 = Waste water
10	OBIS code	String(20)		Valid values: 1.8.0 = Water Further codes depend on the meter
11	Reading Type	Integer		Valid values: Empty = Manual reading, IR/CS 0 = Manual reading, IR/CS 3 = Aquaradio Smart
12	Readout Date	String(14)		Export field (YYYYMMDDhhmmss)

9.3 Parameter list for pulse radio module: aquaradio smart

9.3.1. Meter No.

Description	Entry of the serial number of the connected device
Format	########
Allowed characters	[09]
Lower limit	0000000
Upper limit	99999999
Example	12345678
Expert Mode	•

9.3.2. Device type

Description	Selection of the medium to be measured
Format	[Selection]
Selection	- Water meter - Oil meter - Electricity meter - Gas meter

9.3.3. Meter reading in [unit]

Description	Entry of the current meter reading
Format	######.##
Allowed characters	[09][.]
Lower limit	0
Upper limit	99999999
Example	123.45

9.3.4. Pulse unit

Description	Selection of the unit per pulse signal of the connected device. Meter sends a pulse every 100 l, then the module must be set to 100 l.
Format	[Selection]
Selection	(various units for volume and electricity meters)

9.3.5. Pulse value (break)

Description	Entry of the factor by which every pulse fed into the radio module is multiplied (according to the selected unit)
Format	#.##

9.3.6. Wireless communication status

Description	Activating and deactivating wireless communication.
	When wireless communication is deactivated, the device remains fully
	functional.
Format	[Selection]
Selection	- On
	- Off

9.3.7. Wireless transmission interval (in seconds)

Description	Indicates the interval at which wireless telegrams are sent
Read only	•

9.3.8. Wireless key

Description	Key with which the wireless telegrams are encrypted
Read only	•

9.3.9. Battery life (years)

Description	Indicates the calculated battery life of the module
Read only	•

9.3.10. Historical data activated

Description	To activate a wireless telegram with 3 billing date readings
	(otherwise only one billing date is sent)
Format	[Selection]
Selection	- On
	- Off

9.3.11. Date and time in the module

Description	Indicates the current date and time parametrised in the module. During each parametrisation, this date is set automatically by means of the date of the handheld device used.
Read only	•

9.3.12. Module ID

Description	Indicates the internal ID of the module.
Read only	•

9.4 Parameter list for aquaconcept module: aquatarif

9.4.1. Meter No.

Description	Serial number of the water meter
Format	######
Allowed characters	[09]
Lower limit	0
Upper limit	9999999
Max. Length	7
Example	1234567
Ident	IDT1

9.4.2. Additional info 1

Description	Free text
Allowed characters	[09][az][AZ][:*]
Max. Length	016
Example	PMK 20
Ident	IDT2

9.4.3. Additional info 2

Description	Free text
Allowed characters	[09][az][AZ][:*]
Max. Length	016
Example	PMK 20
Ident	IDT3

9.4.4. Billing date 1

Description	Date on which the meter reading effective on that date is saved
Format	DD.MM
Allowed characters	[09][.]
Lower limit	01.01
Upper limit	31.12
Example	31.03
Ident	FDR1

9.4.5. Billing date 2

Description	Date on which the meter reading effective on that date is saved
Format	DD.MM
Allowed characters	[09][.]
Lower limit	01.01
Upper limit	31.12
Example	31.03
Ident	FDR2

9.4.6. Time base

Description	Minutes of the time window for peak values
Format	####
Allowed characters	[09]
Lower limit	0001
Upper limit	1440
Max. Length	4
Example	0060
Ident	TBAS

9.4.7. Meter reading

Description	Meter reading of the water meter
Format	#####.###
Allowed characters	[09][.]
Lower limit	00000.000
Upper limit	99999.999
Max. Length	9
Example	1234.567
Ident	COUN

9.4.8. Time

Description	Time of the module
Format	SS:MM
Allowed characters	[09][:]
Lower limit	00:00
Upper limit	23:59
Max. Length	5
Example	14:33
Ident	TIME

9.4.9. Date

Description	Date of the module
Format	DD.MM.YY
Allowed characters	[09][.]
Example	01.09.16
Ident	DATE

9.5 Parameter list for aquaconcept module: aquareader

9.5.1. Meter No.

Description	Serial number of the water meter
Format	#######
Allowed characters	[09]
Max. Length	8
Example	12345678
Ident	ZSNR

9.5.2. Meter size in DN

Description	Nominal size of the meter in integers
Format	###
Allowed characters	[09]
Max. Length	3
Example	15 / 20 / 25
Ident	ZNGR

9.5.3. Manufacturing date of the meter

Description	Manufacturing date of the meter on which the module is installed.
Format	DD.MM.YY
Allowed characters	[09][.]
Lower limit	01.01.2000
Upper limit	01.01.2126
Example	05.11.2016
Ident	ZFDT

9.5.4. Medium

Description	Information on the meter medium (water, hot water)
Format	[Selection]
Selection	-Hot water (30-90°C) -Water
Ident	MEDM

9.5.5. SW version

Description	Firmware version of the module
Read only	•
Ident	MSVS

9.5.6. Error codes

Description	Error code in accordance with separate error code table
Read only	•
Ident	ESTA

9.5.7. Password

Description	Password for access to Access Level 2 (AL2)
Allowed characters	[09][az][AZ][:*]
Max. Length	16
Ident	UPWD

9.5.8. Calibration status

Description	Query of the calibration status
Read only	•
Ident	CALS

9.6 Parameter list for aquaconcept module: aquaonline

9.6.1. Meter No.

Description	Serial number of the water meter
Format	#######
Allowed characters	[09]
Max. Length	8
Example	12345678
Ident	IDT1

9.6.2. Additional info 1

Description	Free text
Allowed characters	[09][az][AZ][:*]
Max. Length	16
Ident	IDT2

9.6.3. Additional info 2

Description	Free text
Allowed characters	[09][az][AZ][:*]
Max. Length	16
Ident	IDT3

9.7 Parameter list for meter: AMBILL[®] 230 CS

9.7.1. Meter No.

Description	Serial number of the water meter
Format	######
Allowed characters	[09]
Lower limit	0
Upper limit	9999999
Max. Length	7
Example	0123456
Ident	IDT1

9.7.2. Additional info 1

Description	Free text
Allowed characters	[09][az][AZ][:*]
Max. Length	016
Example	PMK 20
Ident	IDT2

9.7.3. Additional info 2

Description	Free text
Allowed characters	[09][az][AZ][:*]
Max. Length	016
Example	PMK 20
Ident	IDT3

9.7.4. Billing date 1

Description	Date on which the meter reading effective on that date is saved.
Format	DD.MM
Allowed characters	[09][.]
Lower limit	01.01
Upper limit	31.12
Max. Length	5
Example	31.03
Ident	FDR1

9.7.5. Billing date 2

Description	Date on which the meter reading effective on that date is saved.
Format	DD.MM
Allowed characters	[09][.]
Lower limit	01.01
Upper limit	31.12
Max. Length	5
Example	31.03
Ident	FDR2

9.7.6. Time base

Description	Minutes of the time window for peak values
Format	####
Allowed characters	[09]
Lower limit	0001
Upper limit	1440
Max. Length	4
Example	0060
Ident	TBAS

9.7.7. Meter reading

Description	Meter reading of the water meter
Format	#####.###
Allowed characters	[09][.]
Lower limit	00000.000
Upper limit	99999.999
Max. Length	9
Example	1234.567
Ident	COUN

9.7.8. Time

Description	Time of the module
Format	SS:MM
Allowed characters	[09][:]
Lower limit	00:00
Upper limit	23:59
Max. Length	5
Example	14:33
Ident	TIME

9.7.9. Date

Description	Date of the module
Format	DD.MM.YY
Allowed characters	[09][.]
Example	01.09.16
Ident	DATE

9.7.10. Numeric characters

Description	Defines the number of pre-decimal positions used. The decimal places are automatically adjusted accordingly
Format	#
Allowed characters	[09]
Selection	5
	6
Ident	DECP



