User manual

UNITOOL

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Preface

- This manual provides important information on the use of the UNITOOL software. Please read this manual carefully.
- Various remarks and warnings in this manual are marked with symbols. Read these carefully and take measures were necessary.

The symbols used have the following meaning:

	REMARK	Suggestions and recommendations to make tasks easier.
	NOTE	A note draws the user's attention to potential problems.
	WARNING	If the procedure is not carried out correctly, data or settings may be lost.

The guarantee becomes invalid if the product described here is not handled properly, repaired or modified by unauthorized persons or if replacement parts are used which are not genuine parts from Wigersma & Sikkema B.V.

Table of contents

1 Introduction

The universal UNITOOL software is suitable for reading out and configuring various device types. UNITOOL supports the device type UNIGAS 300.

Its user-friendly user interface makes UNITOOL very simple to work with.

UNITOOL´s main functions include:

- reading out and modifying the configuration of a device;
- reading out counter readings, measured values and status information;
- presenting counter readings and measured values;
- storing device data in text format, CSV, XML format or the ABL format compatible with Görlitz ENZ local software (other formats on request);
- communication through RS-232, RS-485, Ethernet, GSM and PSTN connections;
- automatic identification of the device;
- identification of user and user rights and device type.

The parameter settings for a certain device are laid down in the devices database. In turn, these parameters are linked to various device types.

The rights of users groups for the parameters are defined in the user database.

Rights are:

- no access
- read-only
- read and write

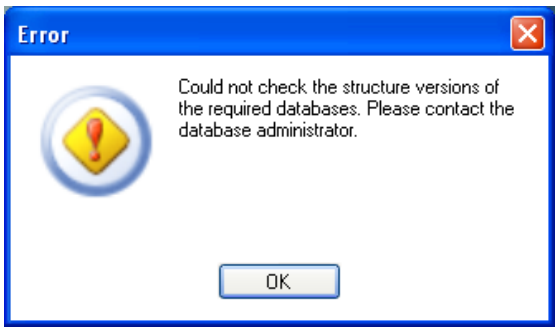
The rights and the available parameters with respect to the device connected with UNITOOL are displayed in UNITOOL dependent on the users group and the device type.

2 Installing UNITOOL

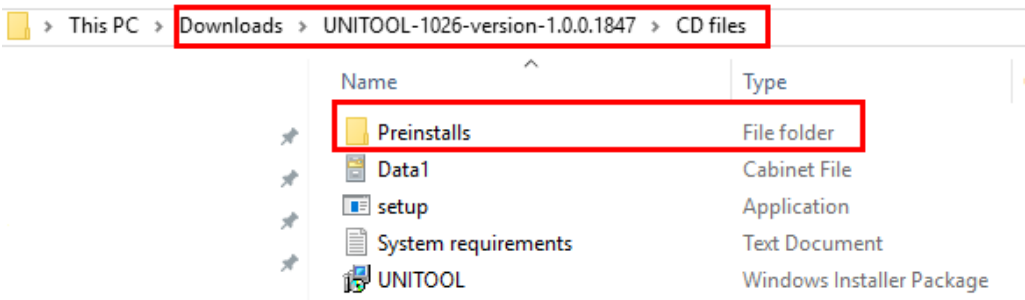
Proceed as follows to install UNITOOL:

1. switch on your PC;
2. close all Windows applications before you start the installation procedure;
3. Start the application "Setup.exe";
4. follow the instructions during installation.

- If the error message below should appear when starting UNITOOL, SQL CE 2005 Edition is not installed. Check that the module is installed. You can download the installation file from http://www.microsoft.com/downloads.



The English installation file can be found in the folder Pre-installs. You can find this directory in the UNITOOL zip file. See picture below.



- If error "*to initialize the application failed to*" occurs, the Microsoft .NET Framework is not installed, or missing a release.
  See Section 11 Requirements for the required version(s). You can download it from http://www.microsoft.com/downloads.

- For error “The operating system does not support encryption” there is a “hotfix” that can be installed.

This “hotfix” (968171) can be downloaded from:

https://support.microsoft.com/en-us/help/968171/fix-error-message-when-you-try-to-create-an-encrypted-database-in-sql-server-2005-compact-edition-the-operating-system-does-not-support-encryption

3 User login

When UNITOOL has started, the user must first log in to be able to connect to the device.

A username and password must be entered to log into UNITOOL. UNITOOL remembers the entered username, so that the username directly appears when the login screen is displayed again.

Rights with regard to the connected device are assigned dependent on the users group to which the user belongs. If the user belongs to several users groups, the user is offered the possibility to select a meter type group after logging in.

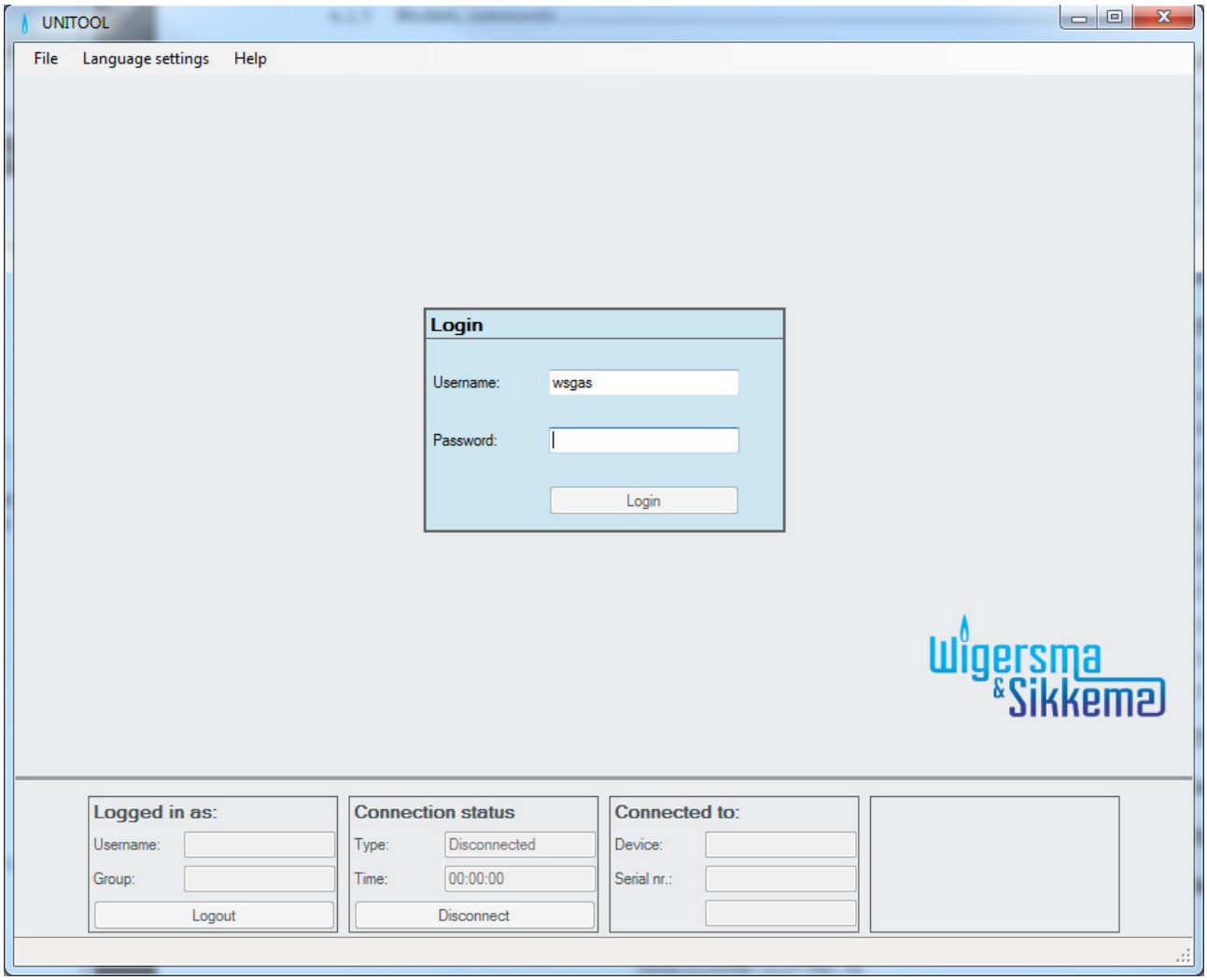
NOTE

Default login (to connect to all meter types):

- Username: “ws-gas”
- Password: “ws-gas”

NOTE

Available parameters and connected rights may differ for each users group.



UNITOOL login screen

4 Connection

UNITOOL supports three ways to make a connection:

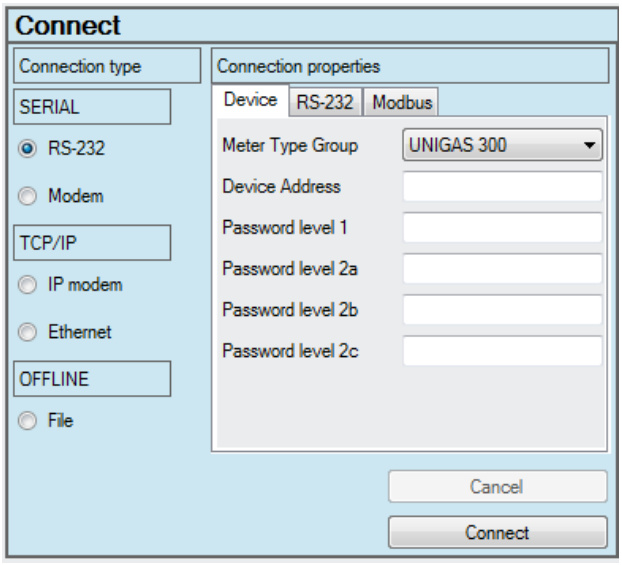
1. Serial – RS-232: local serial connection with the device: for RS-232 and RS-485 connection;
2. Serial – GSM modem: modem connection with the device: for PSTN or GSM connection.
3. TCP/IP – IP Modem: an IP connection with a Moxa OnCell G3150 is used.
4. TCP/IP – Ethernet: Direct connection over the local Ethernet
5. OFFLINE – Opening a session file

When making the connection it is checked whether the user has rights to the device. If the user has no rights, it is not possible to connect to the device.

NOTE Rights and displayed parameters may differ depending on the user.

4.1 Connection properties

4.1.1 Device data



Device settings screen

Meter type group: select the meter type group of the device. It will automatically set the default device address to connect to.

Device address: optional; the address of the device, necessary if the device is connected to a bus system.

NOTE If the device address is incorrect, the device will not respond. UNITOOL will then present a message and break off the connection.

Password level 1: Password for level 1. Gives access to the mode in which counters and registers can be read and written to.

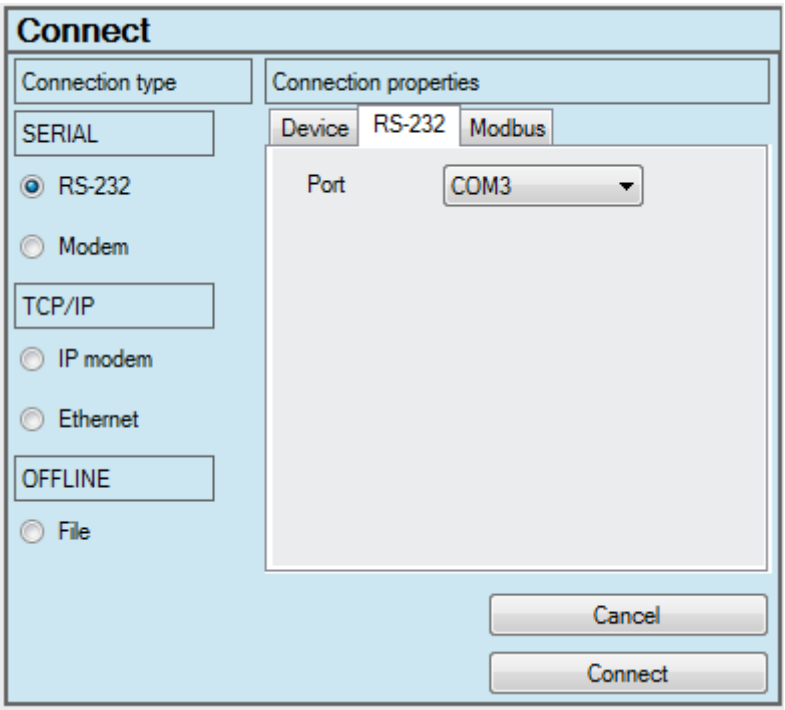
Password level 2a: Password for Level 2a; fort he supplier of the gas. (Similar to the VDEW password)

Password level 2b: Buyer of the gas, the end customer.

Password level 2c: Password for changing the gas composition.

REMARK Consult the device manual for more information on the relation between passwords and parameters.

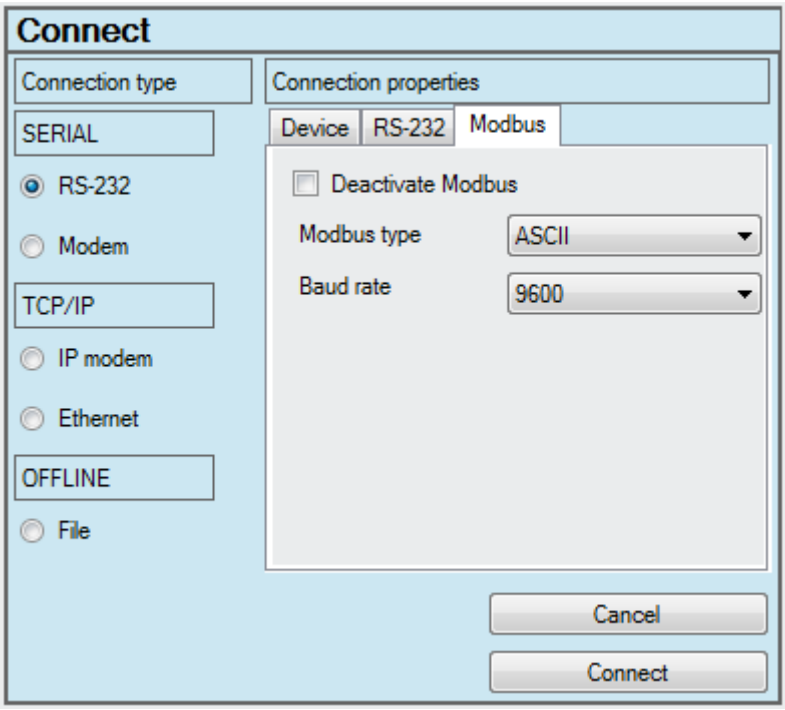
4.1.2 Serial - RS-232



Standard setting serial connection settings

Port: Setting the COM port

4.1.3 Modbus



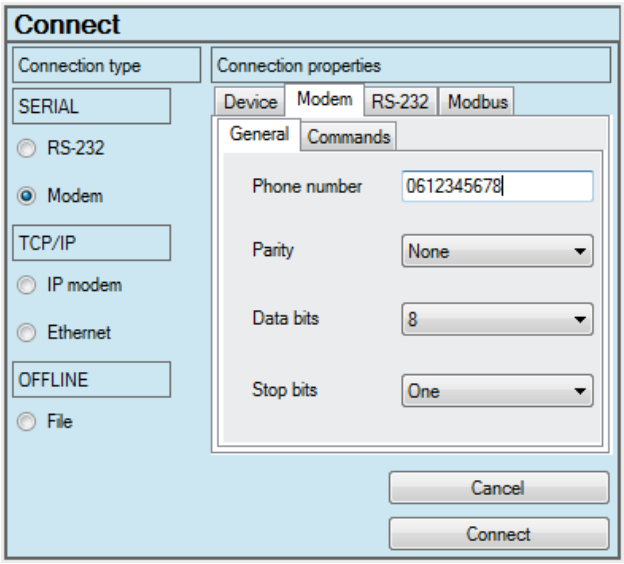
When connecting to the CI-module of UNIGAS 300, and the Modbus protocol is enabled, UNITOOL must be configured to sent a command to temporality disable Modbus.

Send Modbus Command: if in UNIGAS 300 Modbus is enabled, please select this option to communicate with the CI-Module

Modbus type: Modbus communication type; ASCII or RTU

Baud rate: the baud rate of the Modbus communication

4.1.4 Serial - Modem; general

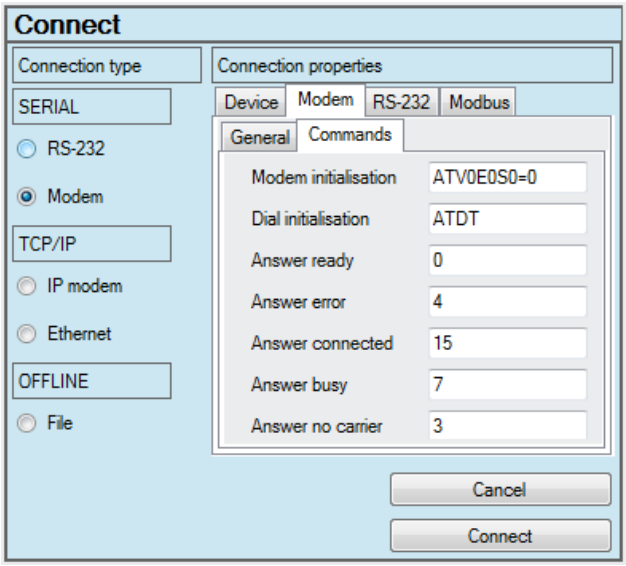


Setting modem communication

Enter the phone number of the device with which the connection must be made.

If necessary, modify the parity, the number of data bits and stop bits in accordance with the settings of the modem that is connected to the PC.

4.1.4.1 Modem; commands



Setting the modem commands

If a modem is used, the modem commands in UNITOOL must match the commands of the modem that is connected to the PC.

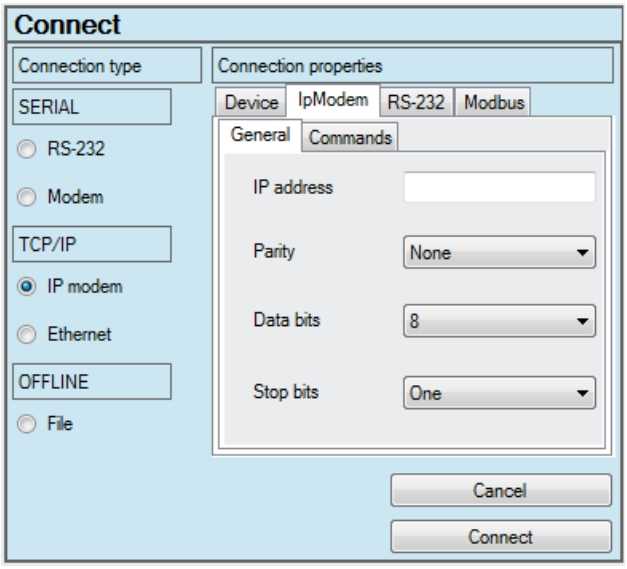
NOTE The response format of the modem commands must be set at numeric response codes (ATV0). Consult the modem manual for these settings.

Procedure for an analogue telephone line and calling via a telephone switchboard.

In the case that an extra zero (''0'') for an external connection is necessary, than the modem initialization command must be changed. To this command "X3" must be added, like for example ATX3V0E0S0=0.

The extra number should not be added to the telephone number.

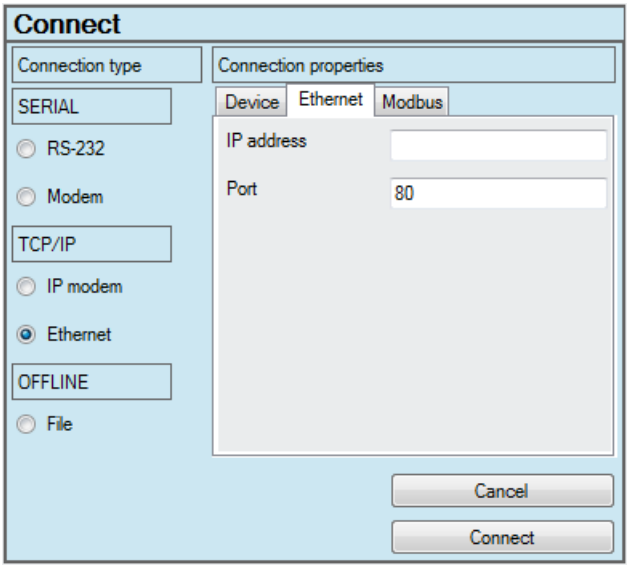
4.1.5 TCP/IP – IP modem



The option TCP / IP - IP modem can be used as a "normal" modem connection. Instead of that a GSM modem used, an IP modem type of Moxa OnCell G3150 connected to the serial port.

For the IP Address, enter the IP address and port number of the device you want to connect. For example 192.168.0.200:80 where 80 is the port number.

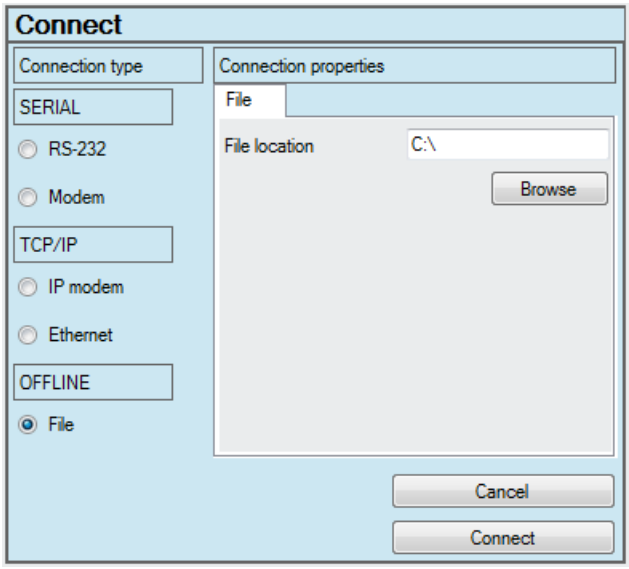
4.1.6 TCP/IP – Ethernet



Choose this option for a direct connection to the "local" Ethernet with the meter.

IP Address: The IP address of the meter.
Port: The port number of the meter

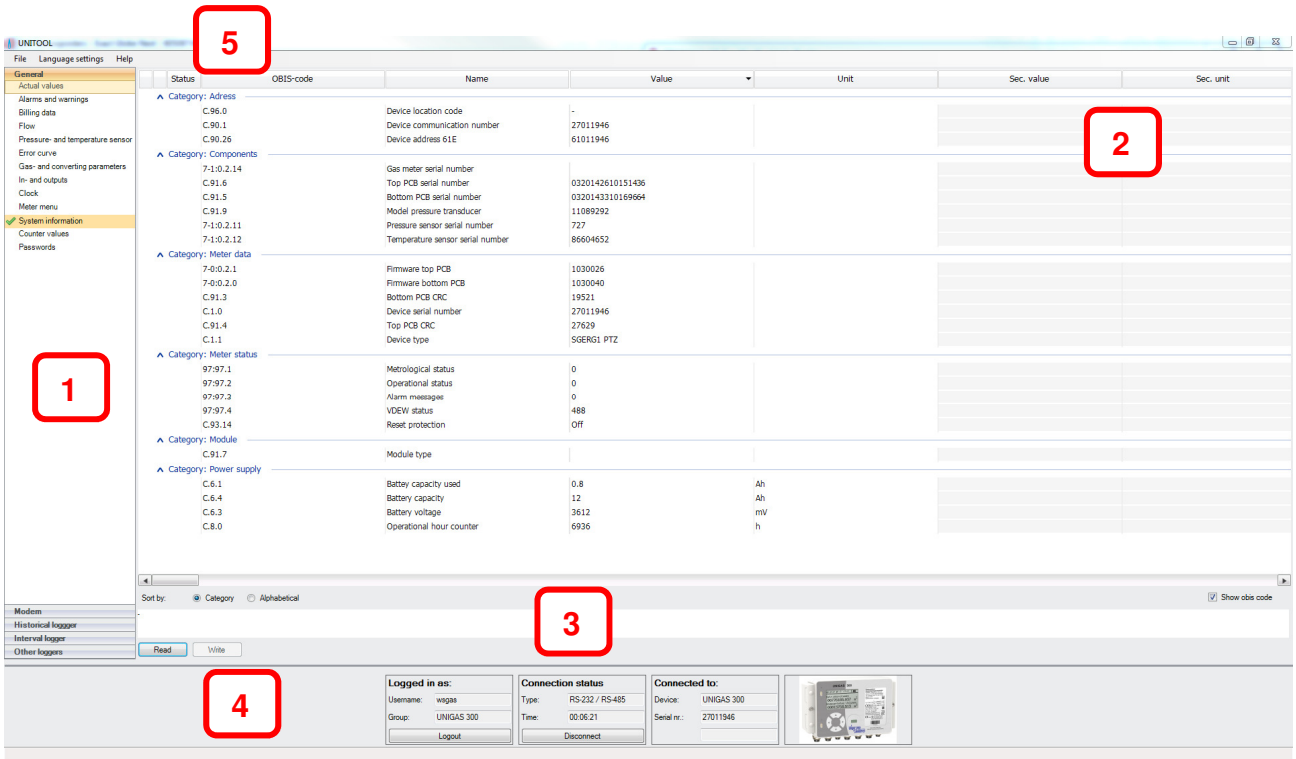
4.1.7 OFFLINE - File



In order to see in a session file, the OFFLINE option can be used. The device data from the meter will be displayed. A session file may be stored, when there is a connection with a meter.

Go to the menu *File* - *Export* - *Session*.

5 Human interface



UNITOOL

The UNITOOL screen consists of a number of elements:

1. Menu: menu items depend on device type and user.
2. Parameter screen: screen with device settings of the selected menu item.
3. Parameter information screen: information on the selected parameter.
4. Status screen: information on connection, device and user
5. Menu bar.

The reading of a set of parameters is initiated by clicking on the button *Readout*. Next, UNITOOL will read out all the parameters that are part of this menu item.

REMARK Menu items and parameters may differ for each user and device type.

5.1 Menu 1

The menu items display is user-sensitive. If the user does not have access to a parameter set of a menu item, this menu item will not be displayed.

Reading out the parameters is initiated by clicking the button *Read*. Any available submenu item will be displayed.

If the user has changed the value of a parameter, this value is set to the meter by clicking the button *Write*.

5.2 Parameter screen 2

This screen displays the parameters. A parameter value can be modified by clicking on the value behind the parameter in the column *Value*. Modifying the value is only possible if the user has the rights to do that.

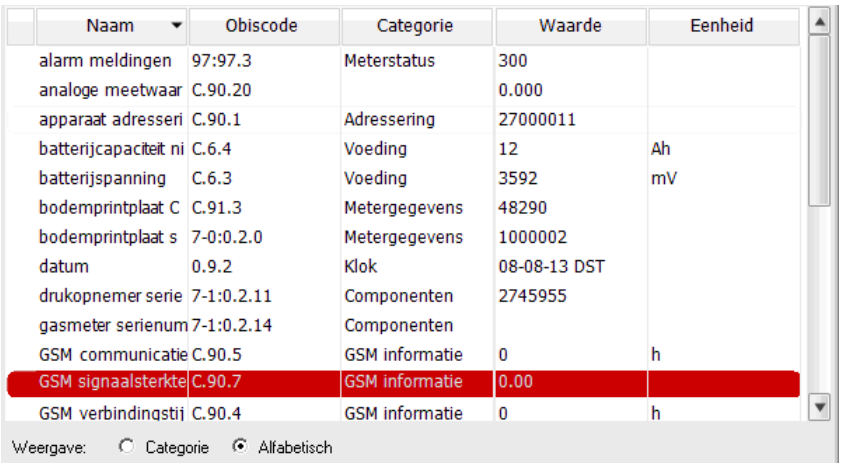
The parameter screen display can be toggled between *Alphabetical* and *Category*. When Category is selected, the parameters are arranged on category.

Parameters can be sorted. When the list of parameters is displayed, it is sorted on the column *Name*. If you want to change the sorting, for instance on *OBIS-code*, you should click on the column *OBIS-code*. Then that sorting will be applied.

The parameter screen also indicates, through a colour, whether an error has occurred on reading out or writing, or that a parameter has been modified, but not yet programmed. The parameter information screen (3) displays additional information.

Display		**Information**
Background colour	**Letter colour**	
grey	white	The value has been changed by the user, but not yet written to the device. Press key *Write* to program the parameters.
orange/red	light grey	An error has occurred on reading out the parameter.
light grey	black	The user does not have the rights to read out this parameter.
orange/red	light grey	The format of the parameter in UNITOOL does not match the format in the device. It is not possible to modify the value of a parameter. The displayed value is the value from the device.
red	black	An error has occurred on writing the parameter.

Display of a parameter and its meaning.



Naam	Obiscode	Categorie	Waarde	Eenheid
alarm meldingen	97:97.3	Meterstatus	300	
analoge meetwaar	C.90.20		0.000	
apparaat adresseri	C.90.1	Adressering	27000011	
batterijcapaciteit ni	C.6.4	Voeding	12	Ah
batterijspanning	C.6.3	Voeding	3592	mV
bodemprintplaat C	C.91.3	Metergegevens	48290	
bodemprintplaat s	7-0:0.2.0	Metergegevens	1000002	
datum	0.9.2	Klok	08-08-13 DST	
drukopnemer serie	7-1:0.2.11	Componenten	2745955	
gasmeter serienum	7-1:0.2.14	Componenten		
GSM communicatie	C.90.5	GSM informatie	0	h
GSM signaalsterkte	C.90.7	GSM informatie	0.00	
GSM verbindingstij	C.90.4	GSM informatie	0	h

Weergave: Categorie Alfabetisch

Failure to read out a parameter

5.3 Parameter information screen 3

The parameter information screen provides additional information on a parameter, if applicable. This information is displayed after clicking a parameter in the parameter screen (2).

If no rights have been assigned to modify the parameter value, which will be indicated in the parameter information screen (see figure below).

Name	OBIS-code	Category	Value	Unit
Alarm messages	97:97.3	Meter status	0	
Battery capacity	C.6.4	Power supply	12	Ah
Battery voltage	C.6.3	Power supply	3611	mV
Battey capacity used	C.6.1	Power supply	0.8	Ah
Bottom PCB CRC	C.91.3	Meter data	19521	
Bottom PCB serial number	C.91.5	Components	0320143310169664	
Device address 61E	C.90.26	Adress	61011946	
Device communication number	C.90.1	Adress	27011946	
Device location code	C.96.0	Adress	-	
Device serial number	C.1.0	Meter data	27011946	
Device type	C.1.1	Meter data	SGERG1 PTZ	
Firmware bottom PCB	7-0:0.2.0	Meter data	1030040	
Firmware top PCB	7-0:0.2.1	Meter data	1030026	
Gas meter serial number	7-1:0.2.14	Components		

Sort by: Category Alphabetical

Device and conversion algorithms

Read Write

UNITOOL information about unable to modify a parameter

5.4 Status screen 4

The status screen gives information on:

- *Logged in as*: user and users group;
- *Connection status*: displays connection type and connection time;
- *Connected to*: device type and serial number;
- Displays the type of the connected device.

UNITOOL status screen

In addition, the connection can be broken off (button *Disconnect*). This will break off the connection and it is no longer possible to change data. The data of the selected menu item can still be consulted. This button can be used for a modem connection. Clicking *Reconnect* will restore the connection.

Clicking the button *Logout* will break off the connection and the user will be logged out. A connection can be made with another device.

5.5 Menu bar 5

The menu bar offers the following options.

1. Import users: importing new users into the users database.
2. Printing device data and loggers: printing data in accordance with the available templates.
3. Storing device data and loggers data: storing in accordance with the available templates.
4. Export and import of device data.
5. Exit UNITOOL.
6. Language settings; changing language setting; setting the language.
7. Help; information regarding UNITOOL and database versions.

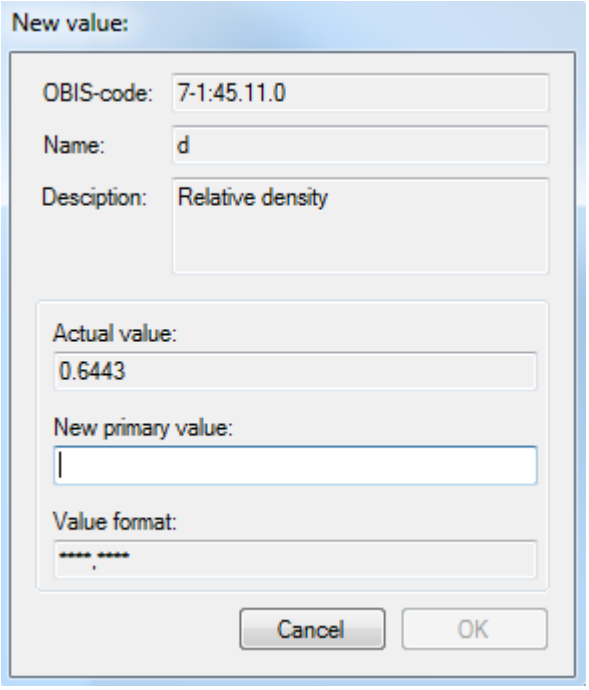
6 Modifying a value in the parameter screen

Values can be modified in a dialogue screen. The user enters the new value in the highlighted window. The window Value format indicates whether the entered format is correct. If the format is incorrect, the *OK* button will be disabled. Invalid entries will not be accepted.

Example:

When changing a parameter of the fixed point type (see chapter 7) the dialogue shows:

- OBIS code of the parameter
- Name
- Description
- Actual value
- New value
- Value format



Example of modifying a parameter

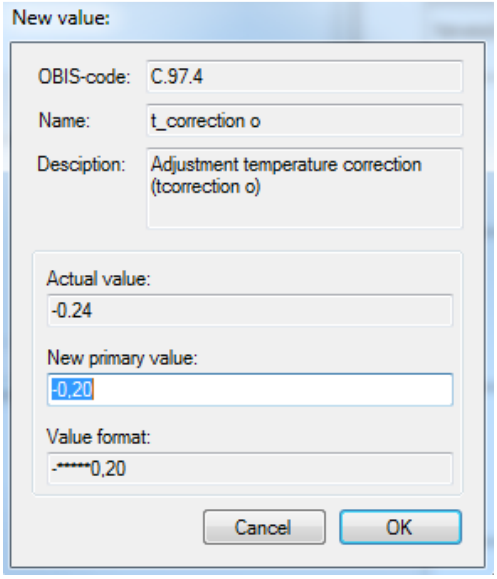
The parameter screen shows the modified parameters highlighted in grey. It is possible to modify various parameters and to subsequently write them to the device. Pressing the button *Write* in the parameter information screen will write only the modified parameters to the device.

7 Parameter types

UNITOOL supports various parameter types:

- Fixed point: value with a decimal point at a fixed position
- Integer: value is a whole number
- Text
- Enumerations (list): there is a choice from a list
- Time
- Date
- Scheduler
- Interval loggers
- Historic loggers
- Metrological log file
- Status log file.

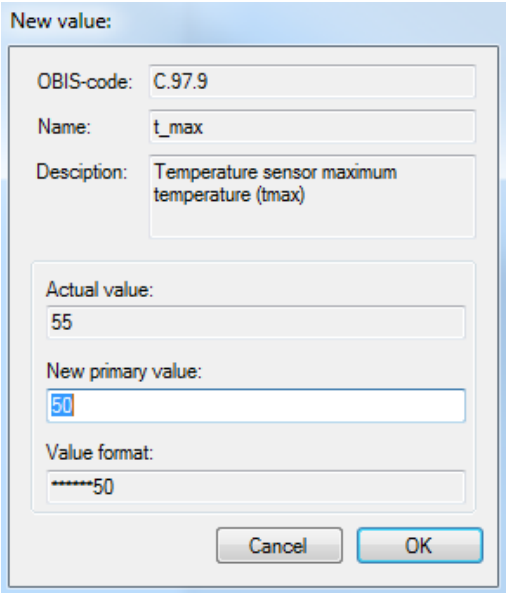
7.1 Fixed point



Example of changing a parameter of the fixed point type

Enter the new value to be programmed and click *OK* to accept the value. Click *Cancel* to cancel the modification. Then a different parameter can be modified and programmed to the device by pressing the button *Write*.

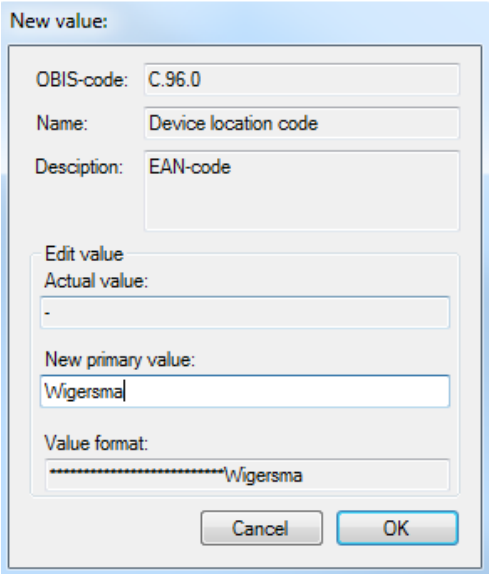
7.2 Integer



Example of changing a parameter of the integer type

Enter the new value to be programmed and click *OK* to accept the value. Click *Cancel* to cancel the modification. Then a different parameter can be modified and programmed to the device by pressing the button *Write*.

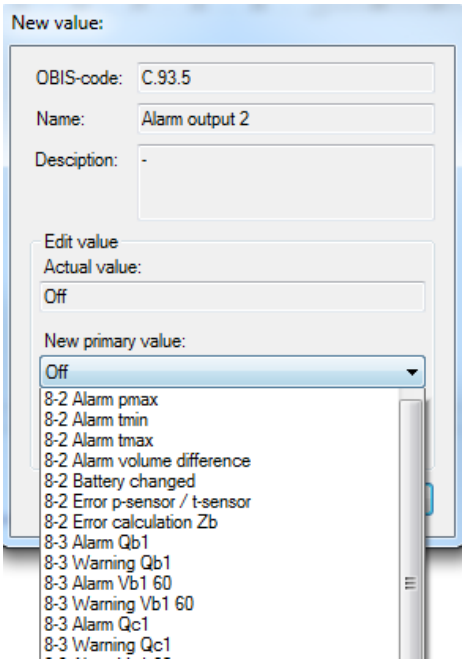
7.3 Text



Example of changing a parameter of the text type

Enter the new value to be programmed and click *OK* to accept the value. Click *Cancel* to cancel the modification. Then a different parameter can be modified and programmed to the device by pressing the button *Write*.

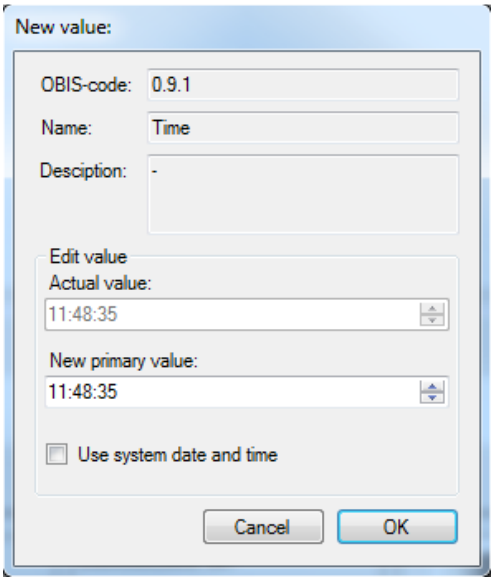
7.4 Enumeration (list)



Example of changing a parameter of the enumeration type

Select an item from the list *New value*. Click *OK* to accept the value or click *Cancel* to cancel the modification. Then a different parameter can be modified and programmed to the device by pressing the button *Write*.

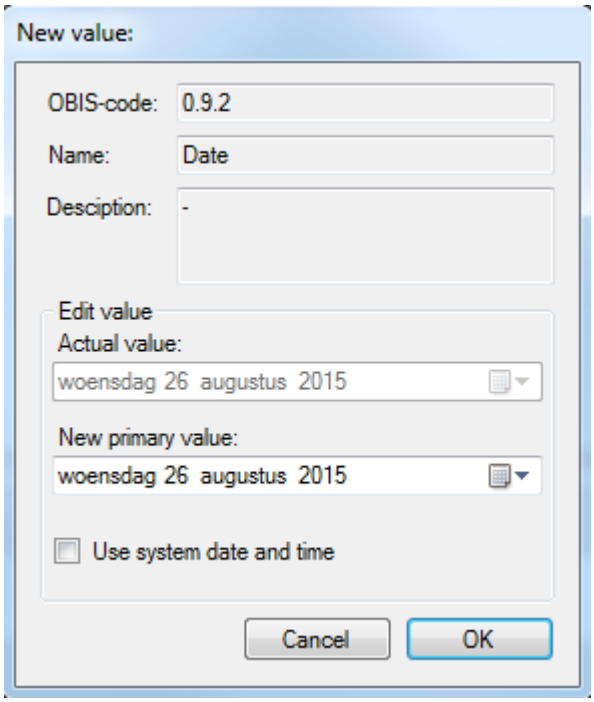
7.5 Time



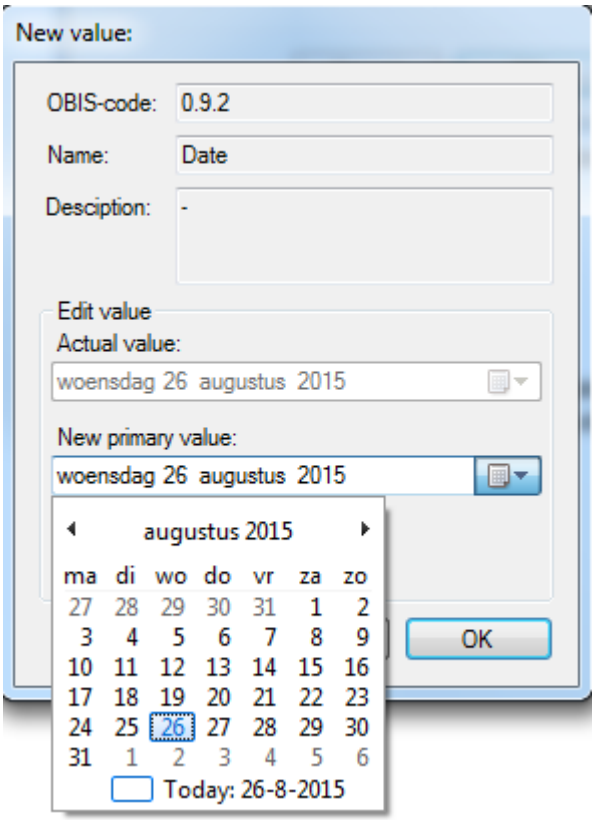
Example of changing a parameter of the time type

It is possible to select a new time or to indicate that the system time must be used. When you select Use system date / time the system time will be written.

7.6 Data



Example of modifying a parameter of the date type

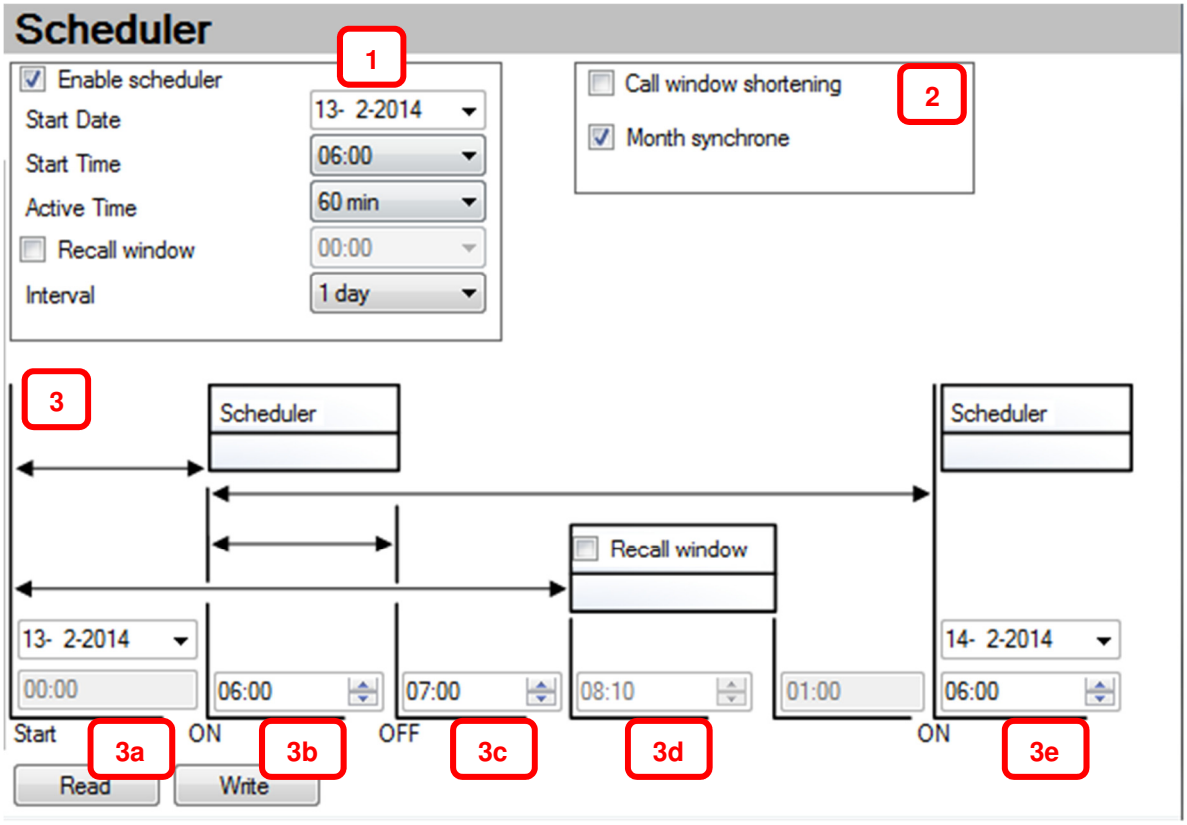


Example of modifying a parameter of the date type, with user selecting date.

It is possible to select a new date or to indicate that the system date must be used. When you select *Use system date / time* the system date will be written.

7.7 Scheduler

The scheduler is not displayed in a parameter screen. When clicking the menu item *Scheduler* the settings of the scheduler is read out and displayed schematically.



Scheduler screen

If the scheduler is deactivated Enable scheduler is not selected. Click on the selection box to activate the scheduler.

1 Quick connect settings window

In the quick connect window the user can set the scheduler settings. The drop down list contains with pre-defined values. When changing the settings in the quick connect window the settings will be applied in the advanced connect window.

- *Enable scheduler*: Enable the scheduler in the device
- *Start date*: start date of the scheduler
- *Start time*: time the modem is switched on
- *Active time*: duration that the modem is switched on
- *Recall window*: select if a reconnect scheduler is needed
- *Interval*: interval between to schedulers

2 Additional settings (not available for every device types)

- *Call window shortening*: if set, the connection is closed if the data is read correctly
- *Month synchronic*: if set, the start date of the scheduler is set on the first day of every month. This can be used to switch on the modem at the first day of every month, used in case the interval is lower than one day.

3 Advanced connect settings window

When changing the values, the values are applied to the quick connect settings window)

- 3a Start date of the scheduler
- 3b Start time on the day of scheduler
- 3c End time of scheduler (On time)
- 3d Start time of reconnect scheduler
- 3e Interval between schedulers

If the combination of settings is not valid the scheduler cannot be programmed. It is indicated with the symbol . When moving the mouse over the symbol, it is indicated why the combination is invalid.

7.8 Interval loggers

Reading out an interval logger is started by pressing the button *Read*.

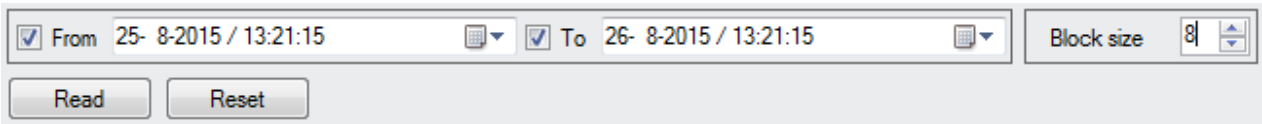
Dependent on the range of the date / time settings, the interval logger will be read out completely or partly.

From date / time	To date / time	Function
YY-MM-DD / hh:mm:ss	YY-MM-DD / hh:mm:ss	Reading from the entered date/time to the entered date / time
YY-MM-DD / hh:mm:ss	-	Reading from the entered date/time until the most recently logged data in the device
-	YY-MM-DD / hh:mm:ss	Reading the first logged data in the device until the entered date / time
-	-	Reading all logged data.

Setting the interval for reading out the interval logger

Setting the block size makes it possible to set the number of loggings for each read block.

REMARK Increasing the block size value will considerably speed up the reading process. A moderate to low GSM connection quality may have an adverse influence on the reading speed.



Setting options for an interval logger

Clicking the button *Reset* will erase the interval logger.

Datum/ tijd	7-1:11·2·0 (	7-1:12·1·0 (	7-1:13·0·0 (	7-1:11·1·0 (	7-2:13·0·0 (	7-3:13·0·0 (	7-1:41·0·0 (	7-1:42·0·0 (	97:97·1	97:97·2	97:97·3	VDEW stat
2008-09-21 10:00	00000000	00000000	00000000	00000000	00000000	00000000	7.95	1027.84	10	0	300	000A
2008-09-21 11:00	00000000	00000000	00000000	00000000	00000000	00000000	8.26	1027.22	10	0	300	000A
2008-09-21 12:00	00000000	00000000	00000000	00000000	00000000	00000000	8.78	1026.87	10	0	300	000A
2008-09-21 13:00	00000000	00000000	00000000	00000000	00000000	00000000	9.19	1026.31	10	0	300	000A
2008-09-21 14:00	00000000	00000000	00000000	00000000	00000000	00000000	9.62	1025.68	10	0	300	000A
2008-09-21 15:00	00000000	00000000	00000000	00000000	00000000	00000000	9.92	1025.17	10	0	300	000A
2008-09-21 16:00	00000000	00000000	00000000	00000000	00000000	00000000	10.04	1024.77	10	0	300	000A
2008-09-21 17:00	00000000	00000000	00000000	00000000	00000000	00000000	9.92	1024.29	10	0	300	000A
2008-09-21 18:00	00000000	00000000	00000000	00000000	00000000	00000000	9.84	1023.85	10	0	300	000A
2008-09-21 19:00	00000000	00000000	00000000	00000000	00000000	00000000	9.70	1023.85	10	0	300	000A
2008-09-21 20:00	00000000	00000000	00000000	00000000	00000000	00000000	9.57	1023.35	10	0	300	000A
2008-09-21 21:00	00000000	00000000	00000000	00000000	00000000	00000000	9.45	1023.62	10	0	300	000A
2008-09-21 22:00	00000000	00000000	00000000	00000000	00000000	00000000	9.34	1023.62	10	0	300	000A
2008-09-21 23:00	00000000	00000000	00000000	00000000	00000000	00000000	9.15	1023.28	10	0	300	000A
2008-09-22 00:00	00000000	00000000	00000000	00000000	00000000	00000000	8.97	1023.17	10	0	300	000A
2008-09-22 01:00	00000000	00000000	00000000	00000000	00000000	00000000	8.80	1023.04	10	0	300	000A
2008-09-22 02:00	00000000	00000000	00000000	00000000	00000000	00000000	8.58	1022.85	10	0	300	000A
2008-09-22 03:00	00000000	00000000	00000000	00000000	00000000	00000000	8.38	1022.24	10	0	300	000A
2008-09-22 04:00	00000000	00000000	00000000	00000000	00000000	00000000	8.28	1022.07	10	0	300	000A
2008-09-22 05:00	00000000	00000000	00000000	00000000	00000000	00000000	8.18	1022.05	10	0	300	000A
2008-09-22 06:00	00000000	00000000	00000000	00000000	00000000	00000000	8.09	1021.68	10	0	300	000A
2008-09-22 07:00	00000000	00000000	00000000	00000000	00000000	00000000	7.98	1021.96	10	0	300	000A
2008-09-22 08:00	00000000	00000000	00000000	00000000	00000000	00000000	7.97	1022.36	10	0	300	000A
2008-09-22 09:00	00000000	00000000	00000000	00000000	00000000	00000000	8.75	1022.42	10	0	300	000A

Interval logger display

REMARK The columns shown in the screen depend on the user rights and the device type.

7.9 Historic loggers

The day logger and month logger are historic loggers. Data are stored in these loggers at the end of a day. The end-of-day moment is adjustable.

Time	Date	Vb1 (m3)	Vb1_err (	Vm1 (m3)	Vc1 (m3)	Vm2 (m3)	Vm3 (m3)	t_m (C)	p_m (mb	Metrologi	Operation	Alarm me	VDEW-sta
6:00:00 D	19-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	18.99	1000.68	0	0	0	0008
6:00:00 D	20-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	18.58	1007.11	0	0	0	0008
6:00:00 D	21-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	18.50	1019.41	0	0	0	0008
6:00:00 D	22-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	19.67	1023.37	0	0	0	0008
6:00:00 D	23-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	20.78	1018.17	0	0	0	0008
6:00:00 D	24-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	18.68	1018.66	0	0	0	0008
6:00:00 D	25-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	19.53	1012.75	0	0	0	0008
6:00:00 D	26-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	19.13	1015.85	0	0	0	0008
6:00:00 D	27-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	19.32	1021.53	0	0	0	0008
6:00:00 D	28-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	20.65	1010.08	0	0	0	0008
6:00:00 D	29-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	19.56	1008.77	0	0	0	0008
6:00:00 D	30-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	19.49	1006.88	0	0	0	0008
6:00:00 D	31-5-2015	00000003	00000000	00000005	00000005	00000005	00000005	18.53	1009.72	0	0	0	0008
6:00:00 D	1-6-2015	00000003	00000000	00000005	00000005	00000005	00000005	18.14	1011.60	0	0	0	0008

Day logger display

Clicking the button *Reset* will erase the historic loggers.

7.10 Metrological log file

The metrological log file stores a logging with the modification and a timestamp for every modification of a metrological parameter.

Date/ time	Name	Old value	New value:	Vc1 (m3)	Vb1 (m3)	Metrological stat	Operational stat	Alarm messages
1-1-2070 0:43:27	Pulse value input	1.0	1.0	00000001	00000000	32	8000	300
1-1-2070 0:43:27	Impulse value inp	1.0	1.0	00000001	00000000	32	8000	300
1-1-2070 0:43:28	Z function	00000001	00000001	00000001	00000000	32	8000	300
1-1-2070 0:43:29	Pulse value input	1.0	1.0	00000001	00000000	32	8000	300
1-1-2070 0:43:30	p_fix	1000.00	1013.25	00000001	00000000	32	8000	300
1-1-2070 0:43:30	t_fix	0	6	00000001	00000000	32	8000	300
1-1-2070 0:43:31	d	0.6000	0.6443	00000001	00000000	32	8000	300
1-1-2070 0:43:32	Hs (25 °C)	30.00	35.67	00000001	00000000	32	8000	300
1-1-2070 0:43:33	Z/Zbfix	1.0000	1.0000	00000001	00000000	32	8000	300
1-1-2070 0:43:33	Interval for p, t, c	25	25	00000001	00000000	32	8000	300
1-1-2070 0:43:34	t_b	0.00	0.00	00000001	00000000	32	8000	300
1-1-2070 0:43:35	p_b	1013.25	1013.25	00000001	00000000	32	8000	300
10-11-2014 10:46	n seconds	10	10	00000001	00000000	32	800C	300
10-11-2014 10:46	Logging moment	6	6	00000001	00000000	32	800C	300

Display of a metrological log file readout

Clicking the button *Reset* will erase the metrological log file.

7.11 Status log file

The status log file stores a logging with a timestamp for every event or state change of the device.

Date/ time	Actual status	VDEW-status
10-11-2014 10:57:09	21	0200
10-11-2014 11:03:01	14	0800
10-11-2014 11:03:02	14	0400
10-11-2014 11:03:16	39	0800
10-11-2014 11:03:16	39	0400
10-11-2014 11:03:19	38	0800
10-11-2014 11:03:19	38	0400
10-11-2014 11:03:19	38	0800
10-11-2014 11:03:19	38	0400
10-11-2014 11:03:19	39	0800
10-11-2014 11:03:19	38	0800
10-11-2014 11:03:19	39	0400
10-11-2014 11:03:19	38	0400
10-11-2014 11:03:19	39	0800
10-11-2014 11:03:19	38	0800

Display of a status log file readout

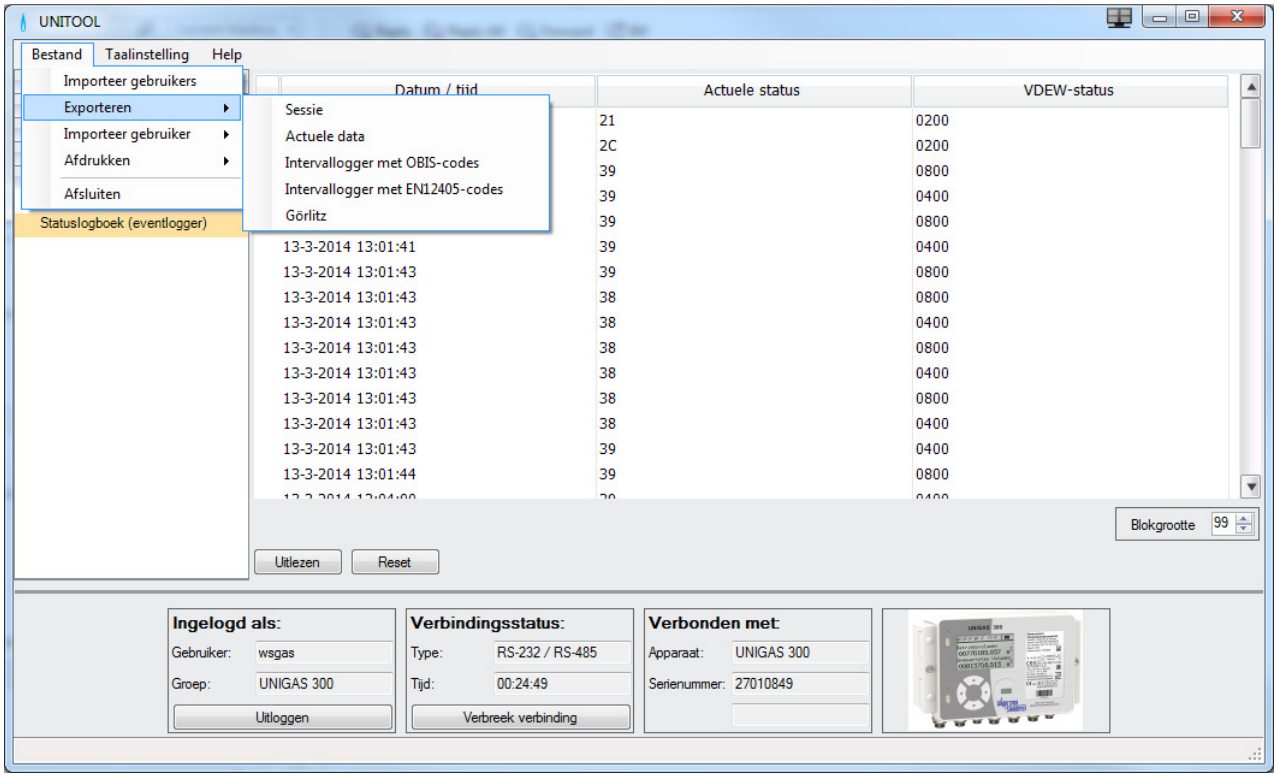
Clicking the button Reset will erase the status log file.

8 Exporting/printing data

On export, data are stored in a file. When printing data, the data are printed to a printer or, if required, to a file.

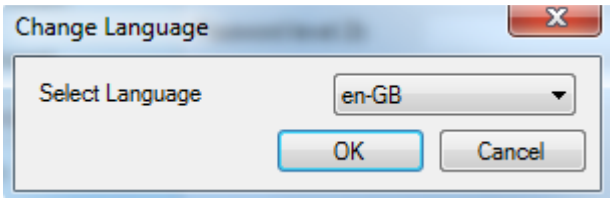
Various templates are available for printing data:

1. *Session*: all read out data are stored in an XML file (only available on export).
2. *Interval loggers*: the interval loggers are stored as CSV text file or printed.
3. *Current data*: the current data (billing data) are stored in a text file or printed.
4. *ABL Format ENZ Software*: storing or printing according ABL format for Görlitz ENZ local software.



9 Setting the language

The user can change the language setting of UNITOOL by clicking Tools and Change language setting in the menu bar. That will call up a screen with the available language settings. Select a language setting and click OK. The language setting will only be applied after the user has logged into UNITOOL.



Language setting screen

10 Database and device types

Overview of the database versions with the available device types.

The database versions can be called up through the *Help* menu in the menu bar.

Device database structure version:	**0.0.15.0**
Device database content version:	**1.0.5.1**
Users group database structure version:	**0.0.5.0**
Users group database content version:	**1.0.5.1**
Supported device types:	
UNIGAS 300	
MODULE0A; With IDOM and FTP protocol	
MODULE1B; With IDOM/ FTP and Modbus protocol	
UNIGAS 61E	
UNILOG	
UNILOG HM	
UNILOG MU	
UNILOG GPRS	
UNILOG 300	

Information regarding UNITOOL and database versions

11 System requirements

- Microsoft Windows 7, Windows 8
- Computer with Pentium processor van 2 GHz or higher, Pentium 4 recommended
- 512 MB RAM or more recommended
- Required free disk space at least 95 MB
- The required disk space may vary dependent on the configuration
- XVGA (800 x 600) or a higher resolution monitor
- Microsoft® .Net Framework 2.0
- Microsoft® .Net Framework 4.0
- SQL CE 2005 Edition

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