Security & Electronic Technologies GmbH

A-2544 Leobersdorf, Aumühlweg 3, Austria



Setup and Operation

of 'SECU-TANK' tank monitoring devices

ONE / RELAY software version V6.0x or higher QUATTRO software version V6.0x or higher software version V6.0x or higher version V6.0x or higher

DATA GSM / QUATTRO GSM software version V6.0x or higher





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Device setup and probe mounting

Concerning installation and mounting as well as regulations and operation please check the corresponding device documentation.

The initial setup is to be performed after completed mounting.

The monitoring devices of the **SECU TANK**-series are to be used for tank content measurement and if applicable for data forwarding or transmission.

For programming of the device the subsequent description is to be followed.

Determine the tank data beforehand and enter it in the menu input steps.

To enter the menu mode from the displaying mode press the [Enter] push button.

Confirm the 'Exit' menu item in step 0 or 7 or 8 to exit the programming mode and return to the general displaying mode.



This tank content measuring system is not a safety device.

The device can support the safety device of the tank but cannot replace it.

Control elements and display

Pushbuttons

The device setting is to be performed via three little blue pushbuttons: [+] [Enter] [-] They are located on the electronic PCB between the connecting clamps.

Language

The menu operating language is selectable via menu item 18 by pressing the buttons

[Enter] [+] [+] [+] ... 18. Language/Sprache [Enter] ...

The setup of the device has to be completed once during the initial setup. After the initial setup the device operates in the displaying mode with closed cover.

Display panel

The LCD-display consists of 2 rows of 16 characters.

The display has a background lighting for the best readability at all lighting conditions.

Depending on the number of connected measuring probes the following display will be shown:

One tank:

Two or more tanks, paging forward...:

```
T2 Name Content/L
Fillspace/L cm/%
```

In case of more than one tank the displaying of the single tanks shown above can be extended by showing the total inventory and the percent values of the single tanks.

At menue item '6. View' select 'Percent = YES (/No)

Liters T1 Liters T2 Liters T3 Liters T4

(paging forward to)

Total invent. Σ Liters % values: T1 T2 T3 T4

Choose the displaying mode:

In menu step '6. View' the favored displaying mode has to be selected. Therefore the menu steps 1 to 5b need to be setup.

The upper display line shows the name of the tank/fluid. The tank can be renamed in '18. Language+Name'.

The lower display line can show the fillable free space in the tank and /or the inventory volume in percent up to the filling limiter or the present cm level.

Setup: View tanks 'Single/Details'

In line 2: Fillable space (-) L + Vol. percent:

(bottom left) (bottom right)

In line 2: Fillable space (-) L + Level in cm: T1 Diesel 31.200L

-16.800L 145cm

In line 2: Volume percent + Level in cm:

T2 Heat.oil 6.200L 65% 104cm

T2 Heat.oil 6.200L

65 %

-3.550L

RECOMMENDATION:

Choose displaying of fillable space + % or cm.

In case of tank filling the person has to determine the fillable free space in the tank before start fueling.

Another benefit:

In the graphic above the left value in the lower line shows **-x.xxxL**That is the fillable free space as well as the consumed amount since last time the tank has been fueled up to the filling limit.

<u>ALTERNATIVE</u> In case of a **QUATTRO-xxx device** with 2 or 3 or 4 measuring probes (3 tanks in example) the displaying may be setup to 'common/together'. (Shows only the Liter values, without paging forward.)

3.400L 16.800L 100.050L

Additionally the **total inventory** ∑ can be displayed, showing the Liter sum and the single % values of each tank: Select 'Percent values = YFS'

total Σ: 120.200L 34% 79% 12% 99%

Setup / Programming

To enter the setup menu press the [Enter] pushbutton.

The setup menu consists of the basic menu items 1 to 7.

The specific menu items 9 to 24 contain extra adjustments.

The device types **QUATTRO**, **QUATTRO NET** and **QUATTRO GSM** are compatible to link and display more than one measuring probe. In this case the number of the tanks is requested before the menu is entered.

Press [Enter] one time and then select the number of the tank by pressing [+]/[-].

The following parameter adjustments refer to that tank number.

Press [+] to navigate to a particular menu item. Enter the parameterization of a particular menu item by pressing [Enter] and confirm the selected value.

| Input function: Menu main item | <u>Description</u> | | | For which device |
|-----------------------------------|--------------------|---|-------------------------------|---------------------------------------|
| Preselection of tank number i | | one linked tank / measumber 1' up to 'Tar | | QUATTRO GSM QUATTRO NET QUATTRO |
| 0. Exit | | ogramming mode. Use e programming. Leave | | all |
| 1. Measure probe | Setup range of | the level probe: | | (all) |
| | Range: | Max.height of oil ta | nk Water column | Select the |
| | 100 mbar | 1,25 m | 1,00 m | pressure |
| | 150 mbar | 1,85 m | 1,50 m | range of |
| | 200 mbar | 2,50 m | 2,00 m | the measure |
| | 250 mbar | 3,00 m | 2,50 m | probe. |
| | 400 mbar | 4,90 m | 4,00 m | |
| | 500 mbar | 6,00 m | 5,00 m | Do <u>not</u> enter |
| | 1000 mbar | 12,0 m | 10,0 m | the liquid |
| | 2000 mbar | | 20,0 m | level here. |
| | 5000 mbar | | 50,0 m | |
| | | for specific measuring ra | - | |
| | , | is displayed when 'Trim item 10. (Probe range i | J | |
| 2. Liquid | Selection of me | easuring liquid (specific | weight of the liquid): | all |
| | | ter, diesel oil , bio diese peseed oil, palm oil*, g | | * = with special type of probe |
| | Or enter the 'D | ensity value' in <u>xxx</u> kg / | m ³ . Use [+] [-]. | |
| | , | alue of the liquid is unkr uu item '10.Trim height' | nown calibrate the | |
| | executed in me | is displayed when 'Trimenu item 10. In that cas density) is not relevant. | | |

| | | | 1 1 |
|--------|---|---|------------------------------------|
| 3. Tar | nk shape | Selection of the shape of the holding tank: Alternatively just 1 special tank geometry can be set by a 'Bearing chart' for liter conversion | |
| | | | |
| | <u>Linear</u> | Default: <u>Linear</u> tank. Rectangular tank; vertical cylinder; steel cellar tank. | |
| | Cylindric horiz (< 50m ³) | Cylindric tank, up to 45m³. Horizontal lying steel tank. Typical tank shape for outdoor and buried tanks. Diameter <= 250cm | <u> </u> |
| | Ball-shaped | Spherical tank. Ball-shaped subgrounded tank; common subgrounded plastic tanks (GRP). | |
| | Oval | Oval cellar tank. Typical shape of GRP plastic tanks | 000 |
| | Convex | <u>Convex</u> plastic tank, mostly as a battery. Slightly bellied tank shape | |
| | Concave | <u>Concave</u> plastic tank, mostly as a battery. Concaved tank shape. | |
| | Holed plastic | Plastic tank with large cavity. Hollow in the middle of the tank's body. (No ring bandages) | |
| | Cylindric horiz (>= 50m ³) | Huge cylindric tank > 50m ³ . Horizontal lying cylindric steel tank. Typical tank shape for large industrial tanks, often buried. Mostly 50m ³ – 100m ³ and diam. 249 or 289 cm. | |
| | Steel tanks | Steel tank or battery tanks group, mostly single-walled tanks: Linear side panels, w. hemicycles at top a. bottom. | 0000 |
| | Bearing chart (input of 1 special chart) | Reference table: Basic value table with up to 15 pairs of values 'cm => liter' for the non-linear regions of the tank. | Unsymmetrical or other tank shape. |
| | Value input from an existing bearing chart for the tank | Step 4 (Tank volume) and Step 5 (Tank height) have to be set up beforehand. Value pairs for 0% (0.0 cm => 0 L) and 100% (tank height => volume) are already set and do not have to be entered again. Index [1] xxx.x cm => xxxx L Index [2] cm => L Index [n] cm => L Non-linear region: Enter several value pairs. Linear region: Enter only begin and end pairs. | nicht lin. |

| Input function: Menu main item | <u>Description</u> | For which device |
|-----------------------------------|---|--|
| 4. Tank volume | Enter the tank volume by [+] [-]. (100% value) Preadjustment is 0 L. The value <u>must</u> be entered. In case of tanks > 1.000.000 units see menu item 12 too. Attention: If a bearing chart is available, please utilize total value. | all |
| | For a buried tank of ~100 m ³ it may be e.g. 100600 liters. | |
| 5. Tank height | Enter the interior height of the tank in cm: e.g. 249.0 cm | all |
| | Attention: If a bearing chart is available it is recommended to take the max. value pair out of the chart. E.g. in case of a 100 m³ buried tank (subgrounded) the exact value could be 288.6 cm. | |
| 5b. Filling limit | Enter the filling limit of the tank: Oil tanks mostly have a filling limiter which defines the filling stop point. The default value is 95% . If for example a large water tank can be filled to its upper rim then enter 99%. e.g. Filling limit: 95%=190cm Change value by +/- | |
| 6. View | The upper display line shows the tank name and inventory in Liters (depending on selection in menu item 12). Select the displaying in display line 2: View details: a) Fillspace+Percent b) Fillspace+Level (cm) c) Percent+Level (% + cm) For oil tanks a) or b) is recommended to show the fillable free space up to the limiter. - collective - Displaying tanks without shifting over. Liters of tank 1 to tank n will be displayed together, see page 2. - single/detailed - All connected tanks are shown in detail by shifting over one by one. L + % (+ temperature) are displayed. - total sum Σ: Y/N Displays whole inventory of all tanks beside the single tanks details, see p.2 | All Only for QUATTRO QUATTRO GSM NET QUATTRO NET |
| 7. Relay or Exit | Switching function of relay 1: Inactive / Active / On / Off Inactive Effect: The relay does not operate depending on the contents. No relay state is displayed or comes with the messages. - Active Effect: The relay operates depending on the contents level. - On Makes the relay operate (fix ON, closed). - Off Makes the relay release (fix OFF). Example: Switching point setup for 'Active' (with hysteresis): On 10% - Enter relay's operating point by + / - Off 15% - Enter relay's releasing point by + / - | RELAY DATA GSM NET |
| | On +35°C - Enter relay's operating point by + / - Off +45°C - Enter relay's releasing point by + / - The relay is without switching function if both values are set to 0% and the temperature switching points are set to 0°C. | RELAY DATA GSM NET |

| | In case of RELAY also setup the switching points for relay 2 . | RELAY |
|-------------------|--|-------|
| 8. Exit | Press [Enter] to leave the setup mode (parameter input). | all |
| Menu items 9 – 24 | Steps 9 – 24 contain special settings. | all |

After setting up step 1 to 7 the <u>standard programming is completed</u>. The device automatically returns to the usual displaying mode by confirming the 'Exit' step. The display shows the present tank content. Mount the device's cover after completing the initial setup!

Programming examples

Example 1 Cellar welded heating oil tank for 6000 L of heating oil, linear steel tank. Interior height 165 cm. (current level: 125 cm) level probe 0 - 200 mbar Device **RELAY**: Relay 1 has to operate when liquid level is at 500 liters (8%): Menu item Input 1. Measuring probe 200 mbar 2. Liquid Heating oil 3. Tank shape Linear 4. Tank volume 6000 Liters 5. Tank height 165.0 cm 5b. Filling limit 95%=157cm 6. View Fillspace + cm Level (displayed in line 2) Active \Rightarrow On = 8%; Off = 10% 7. Relay 1 Relav 2 Deactive 8. Exit [Enter] Displaying mode => ... 4550 L ... 76 %

| Example 2 Buried tank, cylindric hori Interior height 2.88 m, (cu Device DATA GSM with | urrent level 54 cm), level probe 0 - 250 mbar |
|---|---|
| Menu item | <u>Input</u> |
| 1. Measuring probe 2. Liquid 3. Tank shape 4. Tank volume 5. Tank height 6. View 7. Relay 8. (Exit) | 250 mbar Diesel oil Cyl. horizontal > 50 000 L 100600 L (exact value of bearing chart) 288.0 cm (exact value of bearing chart) Fillspace + Percent (displayed in line 2) Deactive Jump to the next step by pressing [+] |
| 15. Modem | PIN: xxxx - Enter the PIN code of the SIM-card. |
| 19. Exit [Enter] | Displaying mode => 12 800 L 13 % |

Example 3 Fountain, 7.50 m max. water level from ground (present level 4.20 m)
Probe TDS-6131 (measuring range 0-1000 mbar), display in m of water level.
Device RELAY. Relay 1 has to protect the pump against running dry (switch off):

| Device RELAT. Relay 1 | has to protect the pump against running dry (switch on). |
|---|---|
| Menu item | <u>Input</u> |
| 1. Measuring probe 2. Liquid 3. Tank shape 4. Tank volume 5. Tank height 5b. Fillspace 6. View | 1000 mbar Water Linear (Volume) Alternatively max. level 7.50 m 7500 [] (enter by +/-) (Max.level) 750.0 cm (enter by +/-) 99%=7.50m View details: Percent + Level |
| 7. Relay 1 Relay 2 8. (Exit) 12. Unit 13. Rounding 14. Exit [Enter] | Active => 'On' at 99 %; 'Off' at 10 % of the level. Deactive Jump to the next step by pressing [+] Set display unit to 'm'. Automatically (default). Displaying mode => e.g. '4.20 m 56 %' |

Tank with interior mantle

In case of tank with interior mantle (e.g. horizontal cylindric or cellar steel tank) correct the input values.

Example: Mantle thickness ~ 0.5 cm to 1 cm

=> Reduce '5. Interior height' by ~ 2 cm

=> Reduce '4. Volume': Volume up to 10 m³ => reduce volume by 3.0%

Volume up to 20 m³ => reduce volume by 2.5% Volume up to 50 m³ => reduce volume by 2.0% Volume up to 100 m³ => reduce volume by 1.5%

Special parameters

| Additional | Description | Famoutitati |
|----------------------------------|---|------------------|
| input functions: | <u>Description</u> | For which device |
| Menu items 1 to 7 | The menu items 1 to 7 contain the basic setup of the devices. Some special settings like language or network parameters or others have to be set up via menu items 9 to 24. | all |
| 9. Offset probe 10. Trim height | Sub-menu a. 'Offset calibration' (electrical zero point) b. 'Probe bottom gap' (position over ground) c. 'Bottom dead stock' (shall not be displayed) - ESC Exit this sub-menu. - Offset calibration: Stores signal value of probe's zero point. Probe must not be plunged. - Probe bottom gap: Distance: x cm Standard is x = 0 cm, max = 99 cm - Bottom dead stock: Sucking position over ground: y cm Standard is 0 cm, means total content. y > 0 cm means dead stock height which doesn't occur in the liter displaying - Default values: Resets all values back to standard 0. | all |
| To. Trim neight | Input option for the reference height for calibration of probe and measurement device. It is useful in case of unknown specific weight of the fluid. Enter the beared liquid level: xx.x cm (+/-/Enter). Confirm with 'Calibrate: Yes' If this is done at a low tank filling level it is recommend to repeat this later again at a higher filling level. Also refer to 11. | all |
| 11. Exit | Jump further with [+] or Exit with [Enter] | all |
| 12. Unit | Selectable units are: L (Liters), %, m, kg, t (Tons), IG (Imp.gallons), UG (US gallons). (+/-/Enter). Displaying mbar or kPa is also selectable. '%' or 'm' values are displayed with two decimal numbers. | all |
| 13. Rounding | Automatically Without rounding - No rounding means highest resolution. Maybe wobbling values. A certain rounding is recommended => sedation. Or 2/5/10/20/50/100 [L] is selectable. | all |
| 14. Exit. | Jump further with [+] or Exit with [Enter] | all |

| 15. Network | NET, QUAT | TRO NET: - DHCP | Only for |
|--------------------------------|--------------|---|--|
| or | , | Sub-menu for network parameter setup like IP addresses, message destination and communication test. Please coordinate these settings with your network admin. See additional documentation 'network device connection'. | NET QUATTRO-NET |
| 15. Modem | DATA, QUA | ATTRO GSM: - Send SMS A test SMS will be sent to the mobile number set by #T command. See additional documentation 'Messages, Commands a. Parameters'. - PIN Shows the PIN No. of the SIM card. PIN = 0000 deactivates the internal GSM modem completely. | Only for DATA GSM QUATTRO GSM |
| 16. Sort tanks / Clear tank | 'ESC' / 'Tan | k n' Deletion of a registered tank: If the QUATTRO-xxx device detects a measure probe signal at the <u>next</u> input then this tank becomes registered at the next tank number (tank n). ay re-sort or delete the registered tank numbers. | Only for QUATTRO QUATTRO GSM QUATTRO NET |
| 17. Input/Output | Alarm-In : | Choose the function of the alarm contact input: - Deactive Defines the alarm input to not operating. - Opening If input contact opens for > 2 min. then the alert will be triggered. - Closing If input contact closes for > 2 min. then the alert will be triggered. | DATA GSM NET |
| | Data-Out : | Defines the data output at the adaptor slot. Choices are: - Output of single tank data T1 / T2 / T3 / T4 => Applicable for analogue adaptor Output of all tanks T1 – T4 => Data of all tanks sequentially go to the output, - e.g. via the 'serial output adaptor' to PC-LINK or to H-Protocol-Box - or for the MBus Adaptor. | QUATTRO DATA GSM QUATTRO GSM NET QUATTRO NET |

| Additional input functions: | Description | 1 | For which device |
|-----------------------------|---|--|--------------------------|
| 18. Language | Language : | 'German' / 'English' / 'French' / 'ESC', use + / - / Enter | all |
| | Names : | Name and characters are overwriteable. Characters changeable by + / - / Enter - Tank 1: abcabc - Tank n: xyzxyz - Alarm name: Alarm A | all |
| 19. Exit | Press [Ente | r] for returning to the displaying mode. | all |
| 20. LCD display | | etup the contrast of the LCD display is a value of e.g. 24 . Contrast: xx | all |
| 21. Device info | Serial no. | Software version: V6.00 (+) (e.g.) | |
| 22. Test current | Testing function for the current mA signal of the measuring probe: e.g. ADC = 28A1 = 4.01 mA In case of unplunged measuring probe the value should be close to 4 mA. Tolerance range is 3.7 4.3 mA. If out of tolerance range, see menu item 9.0ffset probe. | | all |
| 23.Test relay | Relay 1 = Of | ion for relay switching: f / On + / - / Enter lay 2 at device type RELAY. + / - / Enter | RELAY DATA GSM NET |
| 24. Reset | - ESC : - Restart : - Factory set | the device software: Leaves this sub-menu without execution. New initialization of the device software but parameter setup is left unchanged. ting: Complete resetting and clearing of all parameters back to the original state of delivery. | all |
| 25. Configuration | Internal cont | rolling parameters. Sensitive! Don't change them. Exit with 'Cfg:0' [Enter] | all |
| 26. Exit | Return to dis | playing mode | all |

Error codes / error display

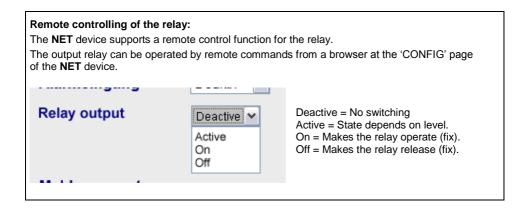
| Message | Meaning |
|-----------|--|
| Error E 1 | Invalid input value. |
| Error E 2 | Measuring value of the probe is too small! If current is less than 3.7 mA => Probe error. |
| Error E 3 | Measuring value is too high for zero-point calibration or offset calibration. The probe must not be plunged! A probe current higher than 4.3 mA indicates a defective probe. |
| Error E 4 | Call step '9.Offset probe' and perform the calibration once. Then retry settings. |
| Error E 5 | 'Height' input is larger than tank height. (Wrong input.) |
| Error E 6 | The measuring value is too small for reference. Make sure the probe is plunged. Settled height is too large (or means the measuring value is too small for setting). Execute step '9. Offset'. If it doesn't work check the probe current (mA)! |
| Error E 7 | The current measuring value is too small for the corresponding tank height or the volume input value. Make sure the probe is plunged. |
| Error E 8 | The current measuring value (mA) is too high. Check electrical connection and check the measuring range of the probe. Switch 230V supply off and on. Check input steps 1 to 5. Execute the zero-point calibration again (=> '9.Offset probe') and check step '22.Test current.' Otherwise replace the measuring probe. |
| Error E 9 | The current value is 0 mA. The probe's connection could be broken. Check probe connection (polarity) and extension. Measure the voltage at the probe (red to black). |
| Error E10 | Calibration error. Switch off and on the 230V supply voltage and retry. Otherwise the probe is working not properly. |
| Error E11 | Warning – The liquid level in the tank is too low for an exact calibration. (Press [Enter] to continue anyway.) |
| Error E12 | No measurement data is received from the external tanks 2 4 yet. |

For device type NET / QUATTRO NET:

Info/Error-Messages at network communication

| Error N 1 | No network communication. A problem at the internal network module. The device automatically executes a 'Reset' for the internal network module and retrys initial communications. Try disconnection of network plug, wait and remount the network plug. |
|-----------|--|
| Error N 2 | Error at the network communication. Check the connections at the device and at the network router Check parameter setup at menu item '15.Network' Check the function '15.Network > Test > Ping: Yes' |
| | Try to connect another network device at this network cable, e.g. a Laptop. If it does not work please contact your network admin. |
| | Important: The destination adress must be a <u>fixed</u> IP address. Otherwise the device retries sending again and again. If 'Sending' is displayed periodically it is caused by an unreachable IP address destination. |
| Sending | 'Sending' is shown in the display in case of current sending of a data message. The message destination can be setup as an IP address at menu item '15.Network => Dest' |
| | If 'Sending' is displayed periodically it is caused by an unreachable IP address destination. The destination should be a fixed IP address. IP + Port should be setup in correct manner. |

XML-Data: Call the device with command *ip-address I* xml via browser or program.



For device type DATA GSM / QUATTRO GSM:

Error messages of GSM module / SIM card / Mobile network

| Error M 0 | GSM modem is inactive. Entering PIN => 0000 deactivates the modem completely. | |
|-----------|---|--|
| Error M 1 | Internal communication error. The device automatically executes an internal RESET and retries communication with the internal modem again. | |
| Error M 2 | SIM card is not inserted or is not readable or is defective. Please check the SIM card in a mobile phone. | |
| Error M 3 | PUK code must be entered. Wrong PIN has been entered 3 times, so the SIM card is locked. Insert that SIM card in a mobile phone and enter PUK code to unlock it. | |
| Error M 4 | In case of a prepaid SIM card check the credit. Otherwise disturbance or network error during sending procedure. Check parameter setup of destined mobile number. | |
| Error M 5 | No mobile network available for this SIM card. (An external antenna could help.) Check the SIM card with a mobile phone by sending a test SMS to its own number. | |
| Error M 6 | In case of a prepaid SIM card check the credit. Otherwise disturbance or network error during sending procedure. Check the SIM card with a mobile phone by sending a test SMS to its own number. | |
| Error M 7 | Mobile network logon failed or has been rejected. Check the SIM card. If the mobile signal (field intensity) is low an external antenna could help. | |
| Error M 8 | Interlock is active! In case of too many failed network logon tries the device will retry logon only once a day. This mode operates for 255 days. By pushing the [Enter] button the device does one logon trail to mobile network again. In case of successfully sending an SMS the interlock is cleared. | |
| Error M 9 | No mobile number destination has been set up. #T command has not been sent. | |

| Relay remote control: | The DATA GSM device supports a remote control function for the relay. |
|-----------------------|--|
| | The output relay can be operated by the #S remote commands sent via SMS. |
| | See the additional documentation for GSM device parameter setup. |

| Order numbers: | | | | |
|--|------------------|--|--|--|
| Device sets without level measuring probe: | Item No. | Description | | |
| ONE | HW000081 | Monitoring device, without level probe | | |
| RELAY | HW000082 | Monitoring device with 2 relays, without level probe | | |
| DATA GSM | HW000084 | Monitoring device with data transmission via SMS, without level probe | | |
| NET | HW000087 | Monitoring device with data transmission via internet, without level probe | | |
| QUATTRO | HW000086 | Monitoring device without data transmission, with 4 measuring inputs for up to 4 level probes | | |
| QUATTRO GSM | HW000085 | Monitoring device with data transmission via SMS, with 4 measuring inputs for up to 4 level probes | | |
| QUATTRO NET | HW000089 | Monitoring device with data transmission via internet with 4 measuring inputs for up to 4 level probes | | |
| Level measuring pro | bes (submersible | 9): | | |
| | | we can offer | | |
| | L | | | |
| Mounting supplies ar | nd other accesso | ries: | | |
| | | Refer to www.fuellstand.org | | |

Maintenance:

It is recommended to check once a year if the displayed values are correct. Two practical check options are:

- Lift the probe above the liquid level. Then check if ~ 0 L is displayed.
- Check the cm value displayed in Step '10.Trim height' (without trimming!).

In case of deviation it is recommended to recalibrate the measuring probe via menu step 9 or 10. If the problem cannot be fixed the level probe might be defective. In this case please directly contact Tecson.

New measuring probe (level sensor):

In case of replacement of the level probe it is recommended to call menu item '9.Probe offset' and execute the item 'Default values'!



DANGER

Use in potentially explosive atmospheres not permitted!

May cause explosion or serious injury.

Installation by a specialist company in accordance with the German Industrial Safety Ordinance!

Installation outside the specified Ex-zone!



ENVIRONMENT & DISPOSAL

To protect the environment, our products must not be disposed of with household waste.

The product must be disposed of via local collection points or recycling centers.