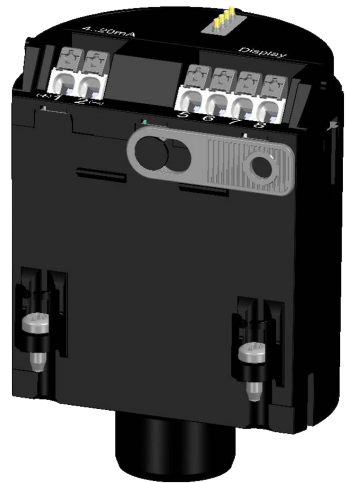


Mounting instructions

Exchange of main electronics

VEGAPULS 6X



Document ID: 66441



VEGA

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1 About this document

1.1 Symbols used



Document ID

This symbol on the front page of this instruction refers to the Document ID. By entering the Document ID on www.vega.com you will reach the document download.



Information, note, tip: This symbol indicates helpful additional information and tips for successful work.



Note: This symbol indicates notes to prevent failures, malfunctions, damage to devices or plants.



Caution: Non-observance of the information marked with this symbol may result in personal injury.



Warning: Non-observance of the information marked with this symbol may result in serious or fatal personal injury.



Danger: Non-observance of the information marked with this symbol results in serious or fatal personal injury.



Ex applications

This symbol indicates special instructions for Ex applications.



List

The dot set in front indicates a list with no implied sequence.



Sequence of actions

Numbers set in front indicate successive steps in a procedure.



Disposal

This symbol indicates special instructions for disposal.

2 For your safety

2.1 Authorised personnel

All operations described in this documentation must be carried out only by trained and authorized personnel.

During work on and with the device, the required personal protective equipment must always be worn.

2.2 Intended use

The components described in this manual are replacement components for existing sensors.

The electronics module "*Main electronics*" is a replacement module for the sensor VEGAPULS 6X.

2.3 Observe the operating instructions

These operating instructions describe how to exchange the replacement module. Observe all safety instructions in the associated, comprehensive operating instructions for the device.

2.4 Approvals

For devices with approvals, the associated approval documents of the sensor must always be observed. These are included in the scope of delivery or can be downloaded from our homepage via the serial number.

3 Carrying out the assembly work

3.1 General instructions

Safety during mounting

We recommended installing the electronics module with the instrument dismantled and brought to a suitable place, e.g. a workshop. If it is not possible to dismantle the instrument, the electronics module can also be installed on site at the measuring point.



Warning:

When dismantling, pay attention to the process conditions in vessels or pipelines. There is a risk of injury, e.g. due to high pressures or temperatures as well as aggressive or toxic media. Avoid this by taking appropriate protective measures.



Warning:

Switch off voltage supply before starting the installation procedure. The electronics module may only be installed when the sensor is in a de-energised state. Non-observance will damage the electronics!

Ex approval



For sensors with Ex approval, make sure that the replacement electronics module has the same designation as the exchanged electronics module.

Assignment

3.2 Mounting preparations

The main electronics is mounted into the electronics compartment and are adapted to the respective sensor. Make sure that you are using a replacement electronics suitable for the instrument.

3.3 Installation procedure

Position in the housing - Single chamber

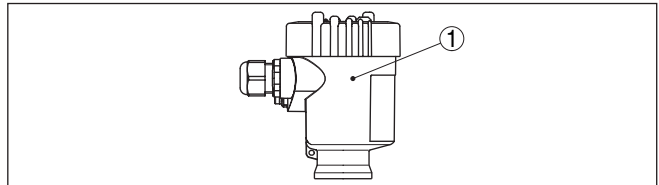


Fig. 1: Single chamber housing

1 Position of the mains electronics in the electronics compartment

Position in the housing - Double chamber

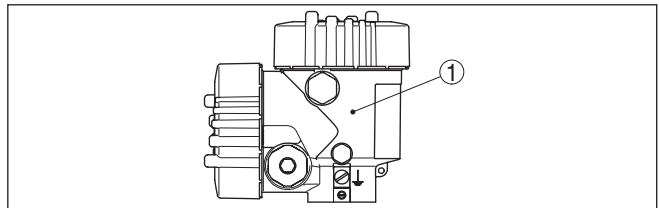


Fig. 2: Double chamber housing

1 Position of the mains electronics in the electronics compartment

Procedure

Proceed as follows:

1. Switch off voltage supply
2. Unscrew the lid of the electronics compartment
3. Detach the connection cables from the terminals according to the operating instructions manual of the respective sensor
4. Loosen the holding screws with a screwdriver (Torx size T 10 or slotted screwdriver size 4)

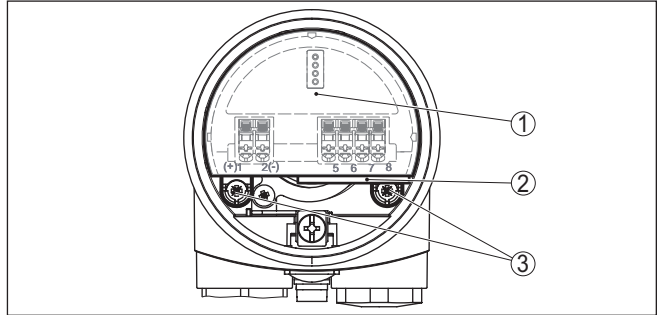


Fig. 3: Chamber with main electronics (example illustration)

- 1 Electronics module
- 2 Dismounting tool
- 3 Screws (2 pcs.)

5. Pull the previous electronics out with the dismounting tool.
6. Insert the new electronics module carefully.
7. Screw in the holding screws and tighten them
8. Insert the connection cables into the terminals again
9. Screw the housing lid back on

The electronics exchange is now finished.



As a rule, an exchange of electronics must be documented internally if Ex applications are involved.

4 Setup

4.1 Setup preparations

Electronics module with programming

After installing the new electronics module and connecting it to the power supply, the device is ready for the setup steps.



SIL-qualified devices are in the locked state, the settings are **not** checked and **not** verified. Initial setup followed by verification and locking is required.

Electronics module without programming

The device is ready for the setup steps after the new electronics module has been installed and connected to the power supply - but without the device data of the delivery status.

However, if the data should be available for operation, you must load it into the electronic module after installation.

Proceed as follows:

1. Enter the serial number of the device in the search field on our homepage
2. In the displayed order data of the device, go to "*Device-related documents*"
3. Download XML file "*DTM configuration file*" by clicking here
4. Transfer this file to the device via "*PACTware/DTM*", "*Maintenance/Electronics exchange*"



SIL-qualified devices are in the locked state, the settings are **not** checked and **not** verified. Initial setup followed by verification and locking is required.

4.2 Setup steps

Parameter adjustment

If the instrument is used in the same application after the electronics exchange, the previous parameter settings of the instrument must be restored. You can use the import function of the adjustment software PACTware with the device DTMs or the copy function of the display and adjustment module.



Note:

It is recommended to recreated an existing false signal suppression after an electronics exchange. If this is not possible, for example, because the vessel is filled, the false signal suppression can be imported also via the DTM. However, the false signal suppression should be updated or recreated next time when the vessel is empty.

5 Dismount

5.1 Disposal

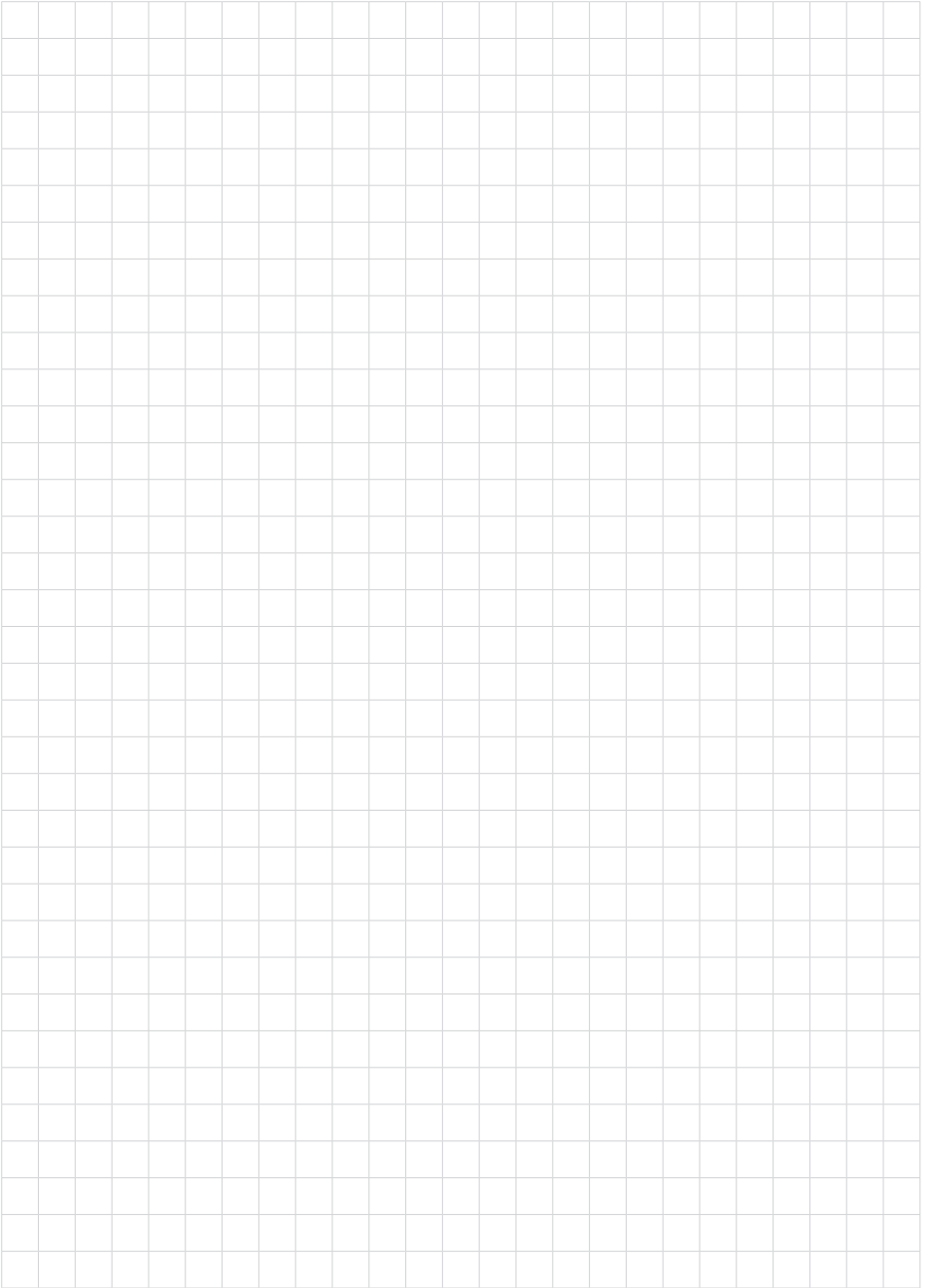


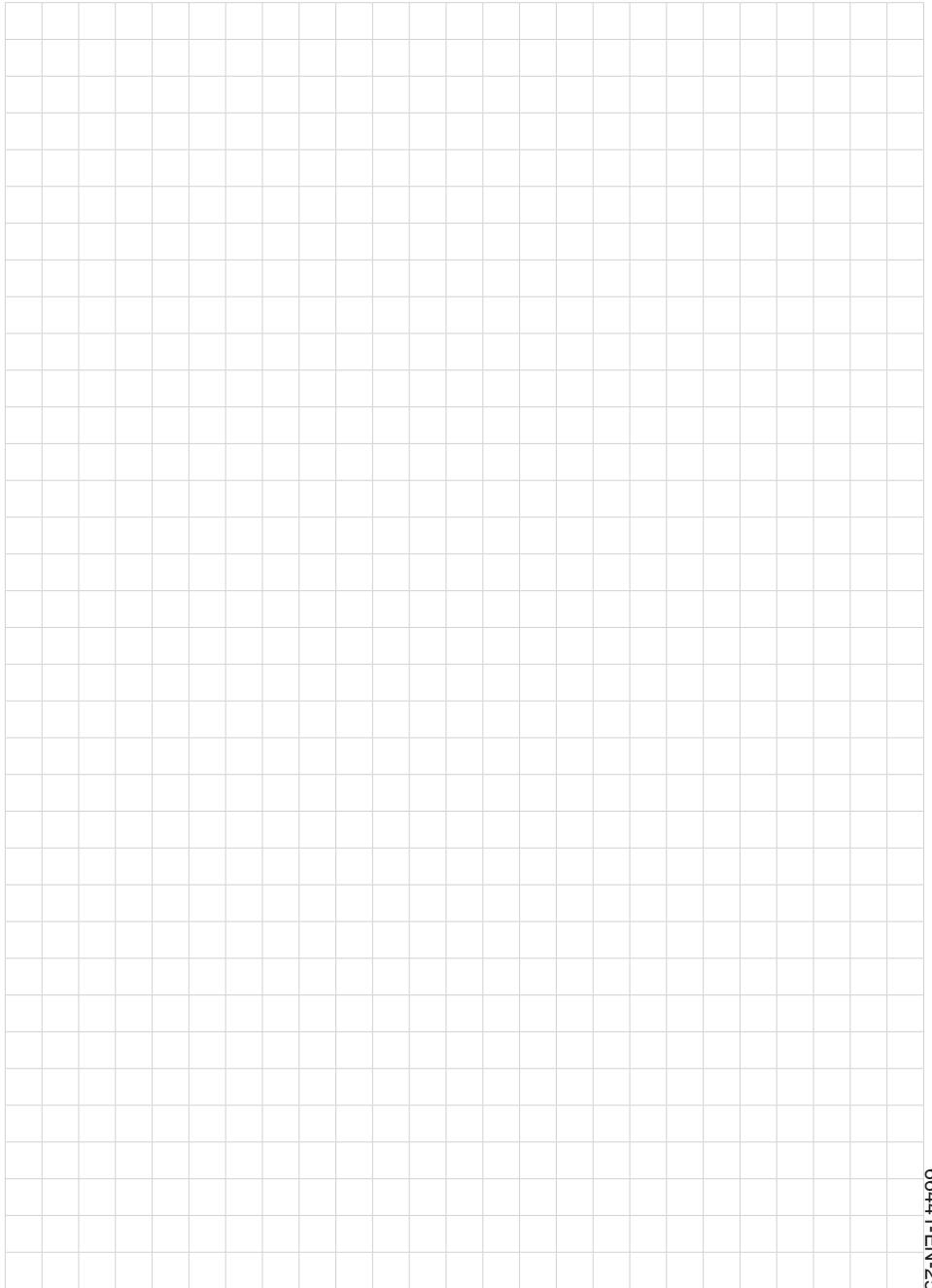
Pass the instrument on to a specialised recycling company and do not use the municipal collecting points.

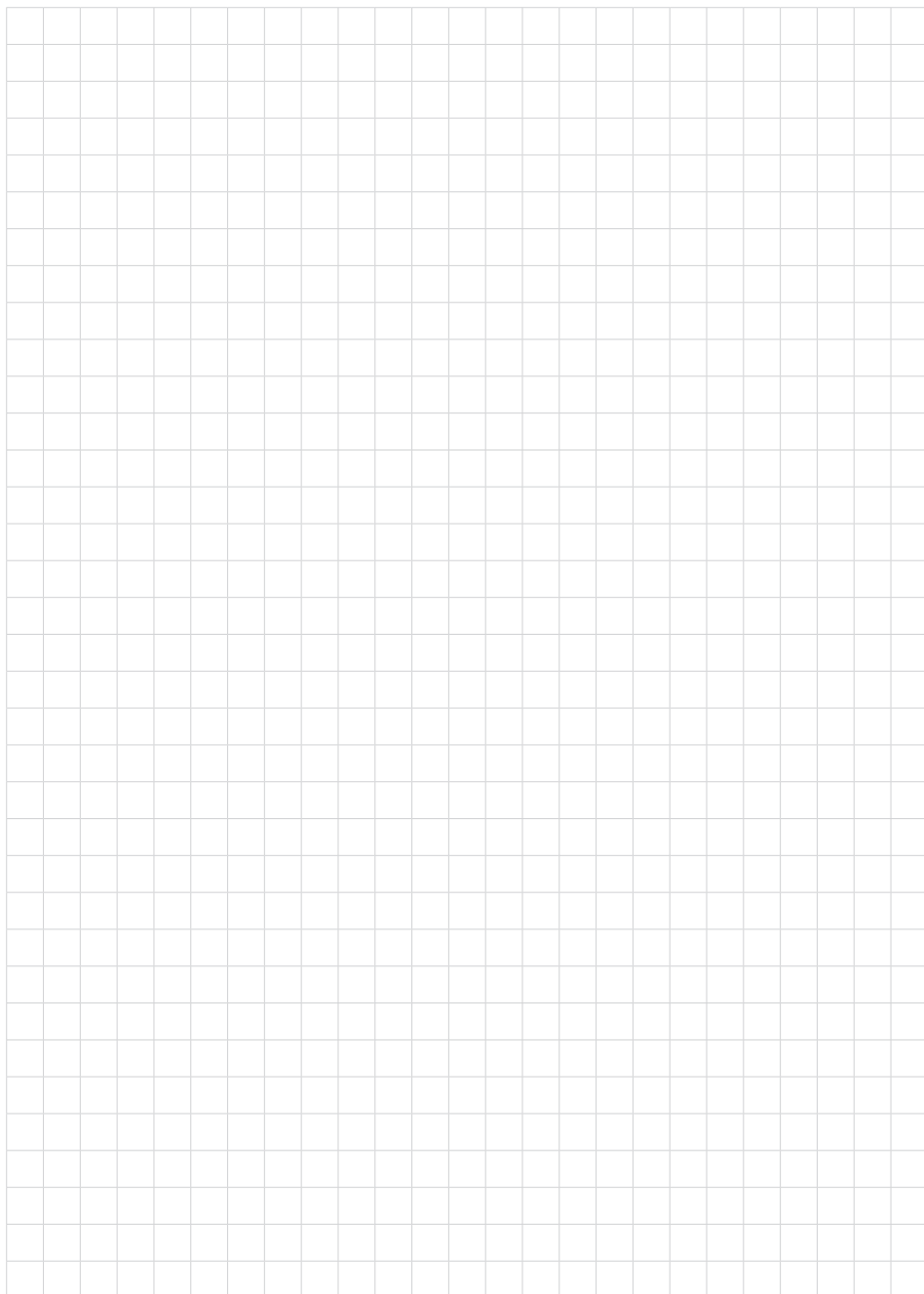
Remove any batteries in advance, if they can be removed from the device, and dispose of them separately.

If personal data is stored on the old device to be disposed of, delete it before disposal.

If you have no way to dispose of the old instrument properly, please contact us concerning return and disposal.







Printing date:

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All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.

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