

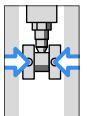
Operating Instructions

Electronics module

VEGADIF 65



Document ID:
36132



Differential pressure

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1 About this document

1.1 Function

This operating instructions manual has all the information you need for quick mounting and setup of a replacement module. Please read this manual before you start setup.

1.2 Target group

This operating instructions manual is directed to trained qualified personnel. The contents of this manual should be made available to these personnel and put into practice by them.

1.3 Symbolism used



Information, tip, note

This symbol indicates helpful additional information.



Caution: If this warning is ignored, faults or malfunctions can result.

Warning: If this warning is ignored, injury to persons and/or serious damage to the instrument can result.

Danger: If this warning is ignored, serious injury to persons and/or destruction of the instrument can result.



Ex applications

This symbol indicates special instructions for Ex applications.



List

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



Action

This arrow indicates a single action.



Sequence

Numbers set in front indicate successive steps in a procedure.

2 For your safety

2.1 Authorised personnel

All operations described in this operating instructions manual must be carried out only by trained specialist personnel authorised by the plant operator.

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

2.2 Appropriate use

Oscillator, emitting electronics, housing or process components are replacement components for existing sensors.

2.3 Safety instructions for Ex areas

Please note the Ex-specific safety information for installation and operation in Ex areas. These safety instructions are part of the operating instructions manual and come with the Ex-approved instruments.

2.4 Environmental instructions

Protection of the environment is one of our most important duties. That is why we have introduced an environment management system with the goal of continuously improving company environmental protection. The environment management system is certified according to DIN EN ISO 14001.

Please help us fulfil this obligation by observing the environmental instructions in this manual:

- Chapter "*Packaging, transport and storage*"
- Chapter "*Disposal*"

3 Product description

3.1 Configuration

Scope of delivery

The scope of delivery encompasses:

- VEGADIF 65 electronics module
- Documentation
 - this operating instructions manual

3.2 Principle of operation

Application area

The electronics module VEGADIF 65 is suitable for exchange in differential pressure transmitter VEGADIF 65.

3.3 Packaging, transport and storage

Packaging

Your instrument was protected by packaging during transport. Its capacity to handle normal loads during transport is assured by a test according to DIN EN 24180.

The packaging of standard instruments consists of environment-friendly, recyclable cardboard. For special versions, PE foam or PE foil is also used. Dispose of the packaging material via specialised recycling companies.

Transport

Transport must be carried out under consideration of the notes on the transport packaging. Nonobservance of these instructions can cause damage to the device.

Transport inspection

The delivery must be checked for completeness and possible transit damage immediately at receipt. Ascertained transit damage or concealed defects must be appropriately dealt with.

Storage

Up to the time of installation, the packages must be left closed and stored according to the orientation and storage markings on the outside.

Unless otherwise indicated, the packages must be stored only under the following conditions:

- Not in the open
- Dry and dust free
- Not exposed to corrosive media
- Protected against solar radiation
- Avoiding mechanical shock and vibration

Storage and transport temperature

- Storage and transport temperature see chapter "*Supplement - Technical data - Ambient conditions*"
- Relative humidity 20 ... 85 %

4 Mounting

4.1 General instructions

Meas. cell and processing electronics

The pressure transmitters VEGADIF 65 are equipped with a two-part electronics: the meas. cell and the processing electronics. The meas. cell electronics in the process fitting is not accessible to the user. The processing electronics, as an electronics module, is located in the housing. In case of a defect, the electronics module can be exchanged by the user.



In Ex applications only one instrument and one electronics module with respective Ex approval may be used.

Sensor serial number

If no electronics module is available on site, it can be ordered from the VEGA agency serving you. The order is possible **without** or **with** sensor serial number. The serial number is stated on the type label of the instrument or on the delivery note.

The electronics module **without** serial number contains **no order-specific** data. However, operation of the instrument is also ensured without these data. This allows a "universal electronics module" to be kept in stock for several instruments.

The electronics module **with** sensor serial number contains **order-specific** data such as housing material, process fitting, meas. cell seal, etc.

4.2 Mounting preparations

First of all, check by means of the order code if you are using the suitable electronics module:

- Electronics module DF-E.60Z for all VEGADIF 65 4 ... 20mA
- Electronics module DF-E.60H for all VEGADIF 65 4 ... 20mA/ HART
- Electronics module DF-E.60P suitable for all VEGADIF 65 Profibus PA
- Electronics module DF-E.60F suitable for all VEGADIF 65 Foundation Fieldbus.

4.3 Mounting steps

Mounting steps

The electronics module is located in the electronics compartment. The below illustrations show the respective position of the electronics compartment in a single or double chamber housing.

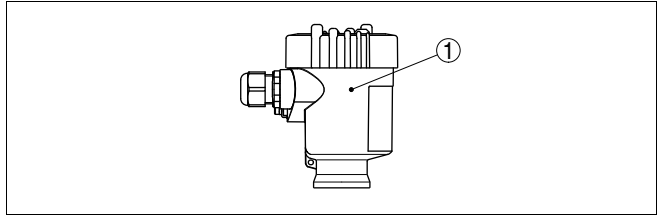


Fig. 1: Single chamber

1 Position of the electronics compartment

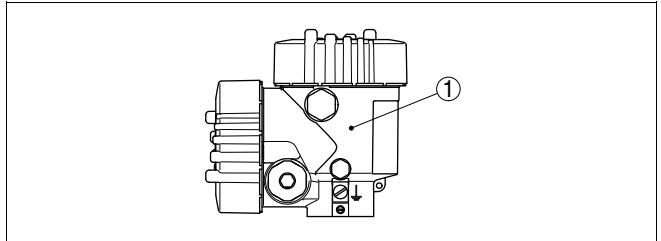


Fig. 2: Double chamber housing

1 Position of the electronics compartment

Proceed as follows:

- 1 Switch off power supply
- 2 Unscrew housing cover of the electronics compartment
- 3 Disconnect the connection cables according to the operating instructions manual of the respective sensor
- 4 Loosen the two holding screws with a screwdriver (Torx size T 10 or slot size 4)

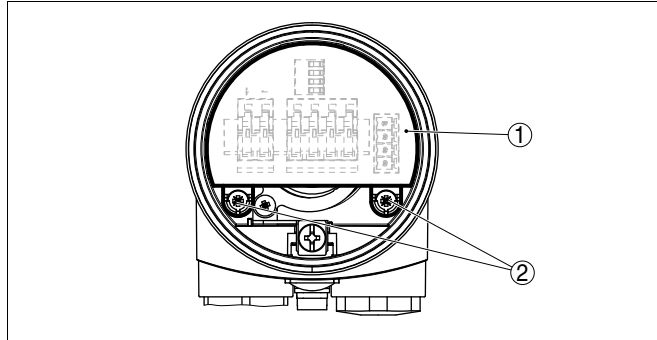


Fig. 3: Loosening the holding screws

- 1 Electronics module
- 2 Screws (2 pcs.)

5 Pull the previous electronics out by holding the opening levers.



Note:

Make sure that the housing is not rotated during the electronics exchange. Otherwise the plug may be in a different position later.

- 6 Insert the new electronics module carefully. Make sure that the plug is in the correct position.
- 7 Insert the two hold screws and tighten them
- 8 Connect the connection cables according to the operating instructions manual of the respective sensor
- 9 Screw the housing cover on

The electronics exchange is now finished.



As a rule, the exchange of the electronics must be documented internally when used in Ex applications.

5 Setup

5.1 Setup

Setup

After mounting a new electronics module and connecting to power supply, the following data are loaded automatically from the meas. cell electronics:

- Instrument type
- Serial number
- Date of manufacture
- Measuring range
- Default

The instrument is generally ready for operation.

If you are using an electronics module without sensor serial number or a "universal electronics module" from stock, you can load the order-specific data of the sensor on site.



Information:

When loading on site, the corresponding file must first be downloaded from the Internet (see "*Load sensor data*").

Load sensor data

Move via www.vega.com to the item "*serial number search*". The order data of the sensor will be displayed after entering the serial number.

Below the order data you can find "*Sensor data for Service DTM*" as XML file. Load this file with "*Save target under*" onto your PC and then transfer the file via PACTware and the Service DTM to the sensor.

Adjustment

As a rule, settings already carried out on site with the previous electronics module such as min./max. adjustment etc., however must be repeated.



Tip:

Simply use the copy function of the adjustment module PLICSCOM or the adjustment software PACTware.

6 Maintain

6.1 Instrument repair

If a repair is necessary, please proceed as follows:

You can download a return form (23 KB) from our Internet homepage www.vega.com under: "*Downloads - Forms and certificates - Repair form*".

By doing this you help us carry out the repair quickly and without having to call back for needed information.

- Print and fill out one form per instrument
- Clean the instrument and pack it damage-proof
- Attach the completed form and, if need be, also a safety data sheet outside on the packaging
- Please ask the agency serving you for the address of your return shipment. You can find the respective agency on our website www.vega.com under: "*Company - VEGA worldwide*"

7 Dismounting

7.1 Dismounting steps

Take note of chapters "*Mounting*" and "*Connecting to power supply*" and carry out the listed steps in reverse order.

7.2 Disposal

The replacement module consists of materials which can be recycled by specialised recycling companies. We have purposely designed the electronic modules to be easily separable.

WEEE directive 2002/96/EG

This instrument is not subject to the WEEE directive 2002/96/EG and the respective national laws (in Germany, e. g. ElektroG). Pass the instrument directly on to a specialised recycling company and do not use the municipal collecting points. These may be used only for privately used products according to the WEEE directive.

Correct disposal avoids negative effects to persons and environment and ensures recycling of useful raw materials.

Materials: see chapter "*Technical data*"

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

8 Supplement

8.1 Technical data

Technical data

can be found in the operating instructions manual of the respective sensor.



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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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