Supplementary instructions

SOURCETAG

Monitoring unit for source holder

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1 Product description

Application area

The SOURCETAG is a monitoring unit for radiation-based source holders and can safely monitor the location of the source holder.

The device is mounted directly on the source holder. The radio unit in SOURCETAG sends the location and a monthly protocol of the movement profile to the operating portal at adjustable intervals.

The protocol provides reliable and verifiable location data, which is useful for the transport and operation of source holders.

If the device leaves a user-definable range, an alarm notification is sent to the operating portal.

Fig. 1: Monitoring unit on a source holder on a VEGASOURCE 82

Features

The monitoring unit for source holders can be ordered when the source holder is ordered.

In this case, the device is mounted on the source holder at the factory.

This means that transport can also be monitored completely.

The monitoring unit can also be retrofitted at any time.

If the GPS connection is interrupted, all data is saved in an internal memory. As soon as the connection is re-established, the saved data is sent.

- Reliable location tracking and monitoring of the source holder, both during transport and in operation
- Radiation protection officers can provide the authorities with evidence of the location of the source holder
- Reduced space requirement and simple mounting

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- Suitable mounting kits for VEGASOURCE series 80
- Universal mounting kits also for other source holders
- Retrofitting possible
- Operational reliability thanks to long battery life (up to 5 years)
- Simple web-based adjustment
- Individually configurable alarm messages
- User-definable occupied zone (GeoFence)

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2 Mounting of the monitoring unit

2.1 Ex works assembly

If the monitoring unit was ordered with the source holder, it is already fitted ex works.

2.2 Mounting to VEGASOURCE 81, 82, 83

Mount the monitoring unit to one of the transport lugs of the source holder.

The mounting material for the monitoring unit is included in the scope of delivery.

Caution:
Before mounting, we recommend closing the corresponding source container. Use a padlock to secure the source holder in the closed condition and prevent it from being inadvertently opened. Also take note of the instructions in the operating instructions manual of the source holder.

Mounting sequence

Note:
Avoid installing the device in metallic structures, such as metal housings.

Metal housings can affect the cellular and GPS connectivity of the device.

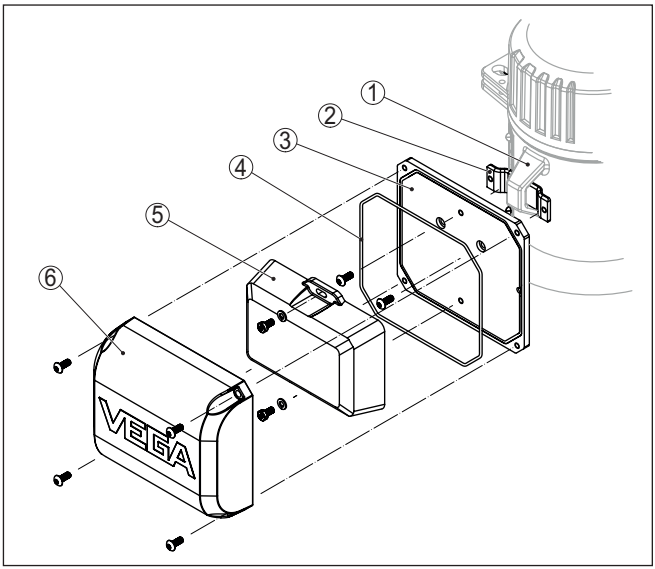

Fig. 2: Mounting of the monitoring unit to VEGASOURCE 81, 82, 83

1 Transport lug
2 Mounting bracket
3 Base
4 Seal
5 Monitoring unit
6 Housing lid

1. Place the mounting bracket (2) behind the transport lug of the source holder (1) as shown in the figure above.

   Mount the base plate (3) to the mounting bracket (2) using two screws.
2. Align the base plate (3) and tighten the screws (hexagon socket TX 15).
3. Place the monitoring unit (5) on the base plate (3) and secure it with the two screws.
4. Insert the seal (4) into the base plate (3).
5. Place the housing cover (6) on the base plate (3) and secure it with four screws.

2.3 Mounting to VEGASOURCE 84, 85, 86

Fit the monitoring unit to the head of the source holder.

The mounting material for the monitoring unit is included in the scope of delivery.

Caution:
Before mounting, we recommend closing the corresponding source container. Use a padlock to secure the source holder in the closed condition and prevent it from being inadvertently opened. Also take

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note of the instructions in the operating instructions manual of the source holder.

Mounting sequence

Note:
Avoid installing the device in metallic structures, such as metal housings.

Metal housings can affect the cellular and GPS connectivity of the device.

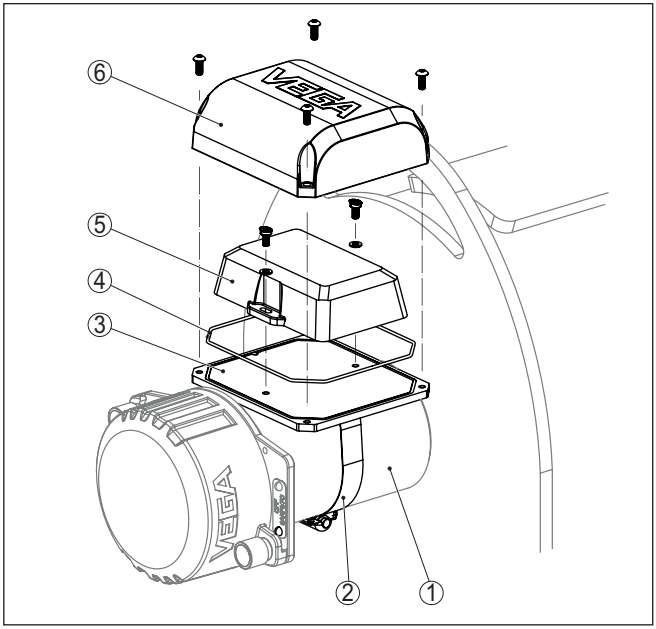

Fig. 3: Mounting of the monitoring unit to VEGASOURCE 84, 85, 86

1 *Source holder*
2 *Fastening clamp*
3 *Base*
4 *Seal*
5 *Monitoring unit*
6 *Housing lid*

1. Place the fastening clamp (2) of the base plate (3) around the head of the source holder (1) as shown in the figure above.
2. Align the base plate (3) and tighten the screws (hexagon socket TX 15).
3. Place the monitoring unit (5) on the base plate (3) and secure it with the two screws.
4. Insert the seal (4) into the base plate (3).
5. Place the housing cover (6) on the base plate (3) and secure it with four screws.

2.4 Adjustment

The monitoring unit can be operated and adjusted via the operating portal.

Note:
The activation data and the access code for the monitoring unit will be sent to your e-mail address.

The device is already activated on delivery.

1. The link in the e-mail will take you directly to the corresponding operating portal.
2. You can now freely customise the application data of your device in your user profile.

The following functions can be set via the operating portal:

- Reporting interval
- User-definable occupied zone (GeoFence)

2.5 Battery change

You can call up the battery status in the operating portal.

You can recognise if the batteries are low from the messages in the status report.

You will need the following to replace the batteries:

- Phillips screwdriver
- Plastic lever tool (optional)
- Three lithium batteries (AA)

1. Remove the housing cover and detach the monitoring unit (5) from the base plate.

   See also chapter "*Mounting of the monitoring unit*".
2. Use the Phillips screwdriver to remove the four screws on the back of the monitoring unit (5).

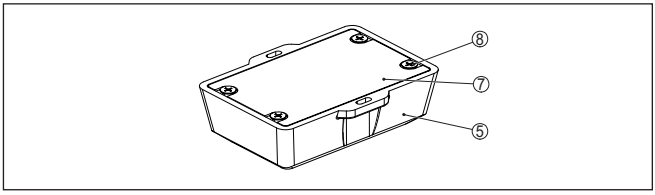

Fig. 4: Battery change on the monitoring unit

5 Monitoring unit
7 Cover
8 Phillips screws (4 pieces)

3. Use a plastic lever tool to lever the rear cover (7) out of the recess more easily.

   An appropriate metal tool could damage the seal.
4. Remove the three AA batteries.
5. Insert the new batteries (3 x AA) into the monitoring unit (5).

Ensure that the polarity of the batteries is correct. You can recognise this in the cavities in the battery compartment.

6. Reinsert the cover (7) into the monitoring unit (5).

   Ensure that the cover (7) and the seal are inserted correctly.

7. Tighten the screws crosswise by hand to ensure that the cover (7) seals evenly.
8. Mount the monitoring unit (5) back onto the base plate.
9. Keep the button on the monitoring unit pressed for one to two seconds.

   The device reconnects automatically. It can take up to five minutes to reconnect.

10. Place the housing cover back on the base plate correctly.

    The battery replacement is now complete.

Note:
Dispose of the old batteries in accordance with the applicable regulations.

3 Supplement

3.1 Technical data

General data

Take note of the specifications in the operating instructions of the source holder.	
Material 316L corresponds to 1.4404 or 1.4435	
Materials	
– Monitoring unit	Plastic - Polycarbonate
– Mounting clamp	316L
Radio unit	LTE Kat. M1 and NB-IOT
Application area	USA, Canada, UK, Europe, Mexico
Voltage supply	Batteries 3 x AA (Mignon), 1.5 V each
Battery life	3 to 5 years (depending on the frequency of the reporting intervals)
Offline function	Without an internet connection, all data is stored internally.
Data security	HTTPS with TLS encryption
Standard reporting interval	2 location reports per day
Weight	800 g (1.76 lbs)

Ambient conditions

Ambient, storage and transport temperature	-50 … +200 °C (-58 … +392 °F)
Operating temperature	-40 … +60 °C (-40 … +140 °F)
Protection class	IP67/IP69K

3.2 Dimensions

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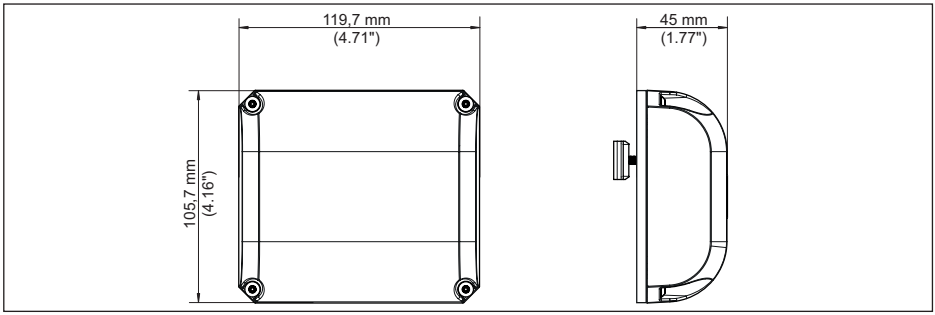

Fig. 5: Monitoring unit SOURCETAG

Mounting example

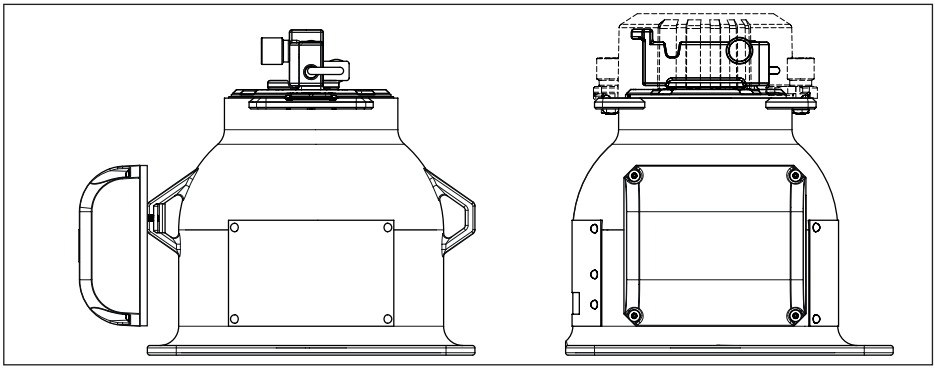

Fig. 6: Mounting example on a source holder VEGASOURCE 82

3.3 Industrial property rights

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3.4 Trademark

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VEGA Grieshaber KG
Am Hohenstein 113
77761 Schiltach
Germany

Phone +49 7836 50-0
E-mail: info.de@vega.com
www.vega.com