



# Assembly and maintenance instructions

according to regulation DIN 82079

Version 12.21  
Datum: 12.12.2021  
Name: Manual\_Giebel-SENSE\_EN



## Giebel SENSE - RTU

### Section 1: Information on the manufacturer

**Giebel FilTec GmbH**  
Carl-Zeiss-Str. 5  
74626 Bretzfeld  
Germany  
Tel. +49 79 46 94 44 01 0  
E-Mail [info@giebel-adsorber.de](mailto:info@giebel-adsorber.de)



### Section 2: Product overview



Versions

Versions	
<b>Giebel-SENSE Modbus RTU</b>	<b>GS-RTU</b>

#### Materials used

ABS, NBR

#### REACH Notice

No ingredients to be named according to Regulation (EC) No 1907/2006.



# Assembly and maintenance instructions

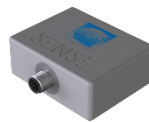
according to regulation DIN 82079

Version 12.21  
Datum: 12.12.2021  
Name: Manual\_Giebel-SENSE\_EN

## Section 3: Structure and materials

Use	Monitor Adsorber status through Modbus RTU connection
Housing material	Stainless steel 316L (V4A)
Sealing material	FKM
Operating temperature	-40°C - +80°C
Connection	M12 A-coding 4 pin male plug

## Section 4: Technical data



GS-RTU	
Total weight [kg]	0,3
Length [mm]	85
Width [mm]	60
Height [mm]	45
Connection	M12 A-coding 4 pin male

## Section 5: Installation and commissioning

1. Remove the sticker that closes the 8mm hole on the side of the Adsorber
2. Place the small tube of the sensor into the 8mm hole all the way to the seal.
3. Place the Velcro belt around the adsorber and close it tightly.
4. Attach the system's cable onto the M12 plug
5. See the [datasheet](#) of the sensor for instructions about setting up the Modbus RTU connection with the system





# Assembly and maintenance instructions

according to regulation DIN 82079

Version 12.21  
Datum: 12.12.2021  
Name: Manual\_Giebel-  
SENSE\_EN

## Section 8: Disposal

### Disposal

At the end of its service life, the device must be disposed of in accordance with the relevant legal regulations.

## Section 9: Risk and hazard analysis

### 1. Humid air flows into the system

#### Porous seals

Moist air can flow into the adsorber or into the system at the porous points. This means that complete drying is not possible and moist air enters the system. The sensor will not show the accurate loading.

#### Loose Velcro belt

If the Velcro belt isn't closed or tight sufficiently, moist air can enter between the sensor and the adsorber

### 2. Sensor is damaged

#### Material resistance

The ambient and operating conditions should be taken into account. An aggressive environment or liquid in the vessel can damage the sensor.

#### Temperature range

The ambient and operating temperatures should not exceed or fall below the specified range, otherwise the sensor may be damaged.

#### Improper handling

Incorrect or improper handling can damage the sensor. The recommended installation must be observed.

#### Strong vibrations

Strong vibrations of the system can damage the sensor.



# Assembly and maintenance instructions

according to regulation DIN 82079

Version 12.21  
Datum: 12.12.2021  
Name: Manual\_Giebel-  
SENSE\_EN

## Pressure range of the system

The adsorber should not be exposed to overpressure or underpressure of more than 0.5 bar, otherwise the sensor may be damaged.

## Cleaning of the sensor

For cleaning the housing, the use of a mild soap in combination with water is recommended. The use of brake cleaner might cause damages to the housing and seal. In any case, the sensor inside the tube should not get in contact of water or other media.

## **Section 10: Maintenance Plan**

### **1. Check seals for wear**

Check The O-ring installed on the sensor must be checked for perfect condition. That means in shouldn't show signs of brittleness.

Cycle Semi-annual

Measures In case of existing damages, a new seal should be used.

### **2. Visual inspection of the sensor**

Check The sensor, incl. connection must be visually checked for damage. Damage can occur due to various environmental or operating conditions.

Cycle Annual

Measures If the sensor is damaged, it must be completely replaced to ensure full functionality.