



## GREISINGER LF 425 Conductivity Measuring Cell Instruction Manual

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GREISINGER LF 425 Conductivity Measuring Cell



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## Intended use

Measurements of conductivity resistivity, salinity and TDS fitted with the devices GMH 5430/50, GHM Silverline SLC

## Applications:

- Aquarists , Fish farming
- Drinking water
- petrol, diesel: LF 210 etc.

## General advice

Read through this document attentively and make yourself familiar to the operation of the device before you use it. Keep this document in a ready-to-hand way in order to be able to look up in the case of doubt.

## Safety instructions

This device has been designed and tested in accordance to the safety regulations for electronic devices. However, its trouble-free operation and reliability cannot be guaranteed unless the standard safety measures and special safety advises given in this manual will be adhered to when using it.

1. Trouble-free operation and reliability of the device can only be guaranteed if it is not subjected to any other climatic conditions than those stated under "Specification".
2. **Warning:** Do not use this product as safety or emergency stop device or in any other application where failure of the product could result in personal injury or material damage. Failure to comply with these instructions could result in death or serious injury and material damage

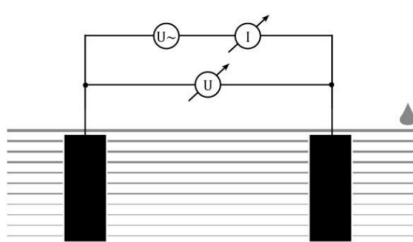
## Operating and maintenance

- Treat device and probes carefully. Use only in accordance with above specification. (do not throw, hit against etc.). Protect from soiling.
- The measuring cell must never come into contact with water-repellent materials such as oil or silicone.
- Cleaning

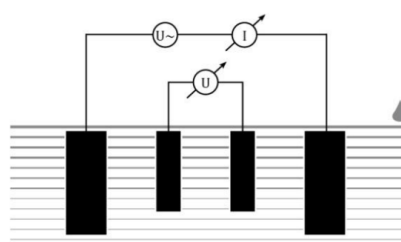
Contamination	Cleaning Solution
water soluble	deionized water
grease , oil	warm water and household cleaning solution

## General information about conductivity measuring

Basically there are two types of measuring cells: 2-pole and 4-pole cells. The operation is done similarly; the 4-pole measuring cells can compensate polarization effects and – up to some degree – soiling due to its complex measuring method.



2-pole measuring cell



4-pole measuring cell

The selection of a suitable electrode depends on the desired application.

- The widest range of application is guaranteed by high-quality 4-pole graphite measuring cells (LF 400 or LF 425, all the above applications and: seawaters, titration and sewage).
- 2-pole platinum electrodes with glass shaft are good solution for used in petrol, diesel, etc. with low conductivities ( $< 1000 \mu\text{S/cm}$ ) (LF 210)

## Disposal notes

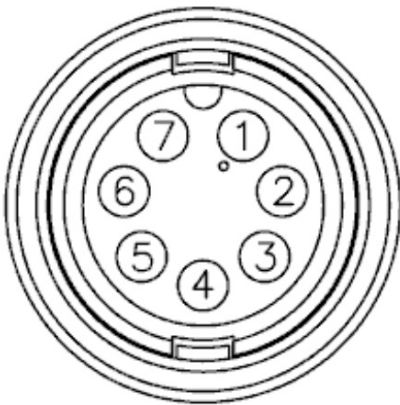


■ This device must not be disposed as “residual waste”.  
To dispose this device, please send it directly to us (adequately stamped).  
We will dispose it appropriately and environmentally friendly.

## Assignments

### Pin LF 210 LF 400 / 425

1. measuring cell 1 supply 1
2. measuring cell 1 signal 1
3. measuring cell 2 signal 2
4. measuring cell 2 supply 2
5. temperature temperature
6. temperature temperature
7. Not connected Not connected



Front View

## Specification

Measuring Cell	LF 210	FL 400	LF425
number of electrodes	2	4	4
Material	platinum	graphite	graphite
materials in contact to media	glass platinum	graphite epoxy	graphite epoxy
Cell constant	1 ± 0,2 cm-1	0,55 ± 0,04 cm-1	0,4 ± 0,02 cm-1
Temperature measurement Sensor	NTC (10 kΩ / 25 °C)	NTC (10 kΩ / 25 °C)	Pt 1000
Meas. Ranges Conductivity	0...1000 μS/cm	0...200 mS/cm	0...1000 mS/cm
Temperature	-5...+80 °C	-5...+80 °C	-5...+80 °C
Dimensions			
Shaft diameter	12 mm	12 mm	16 mm
Shaft length	120 mm	120 mm	145 mm
Cable length	ca. 1 m	ca. 1 m	1 m
Immersion depth	100 mm	100 mm	100 mm
Guarantee	12 month (assuming appropriate usage)		
Accuracy			
Conductivity: depending on display in instrument	Better ±0,5% of m.v. ±0,2 % FS or ±2 μs/cm		Better ±0,5% of m.v ±0,1 % FS or ±2 μs/cm
Temperature	±0.2 K 25 °C		
Nominal temperature			
Ambient temperature	-5 ... +80 °C ((short time 100 °C)		
Storage temperature	-5 ... +80 °C		
Connection	plug 7 pol bayonet fitting (IP65)		

## Customers Support



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# GREISINGER

## Documents / Resources



[GREISINGER LF 425 Conductivity Measuring Cell](#) [pdf] Instruction Manual  
LF 425 Conductivity Measuring Cell, LF 425, Conductivity Measuring Cell, Measuring Cell

## References

-  [Manual-Hub.com - Free PDF manuals!](#)
- [User Manual](#)

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