



Reiss GmbH

we create sensor solutions



TECHNICAL INFORMATION
SENSORS

AT A GLANCE

General

Our sensors measure various disinfectants dissolved in water in diverse applications such as swimming pools, CIP systems, drinking and service water, cooling and waste water and many more. They are offered in a wide selection of various measuring ranges, electrical connections and output signals so that we can provide a wide range of products.

Our brands

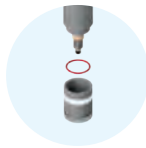
TARAbase



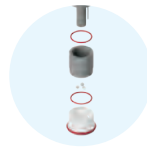
TARAline



TARAtec



TARAsens



Disinfectants

Chlorine	TARAbase, TARAline, TARAtec, TARAsens
Chlorine dioxide	TARAbase, TARAtec, TARAsens
Peracetic acid	TARAtec
Ozone	TARAbase, TARAtec
Hydrogen peroxide	TARAtec
Bromine	TARAline
Chlorite	TARAline

WHAT YOU CAN EXPECT FROM REISS SENSORS

A wide range of measurands

- Free chlorine
- Total chlorine
- Chlorine based on cyanuric acid
- Chlorine dioxide
- Peracetic acid
- Ozone
- Hydrogen peroxide
- Bromine
- Chlorite

Compatibility

Select a controller that perfectly matches your application. We offer various electric output signals:

- 4-20 mA
- 0 - ± 2 V DC
- Modbus RTU

Customised versions available upon request.

Low operating costs

- Long maintenance interval (up to 12 months)
- Low maintenance costs (staff costs, consumption of spare parts)
- Long service life (5 to 10 years)
- Reconditioning at our factory possible

Wide selection of measuring ranges

You can find a detailed overview of the measuring ranges on our website.

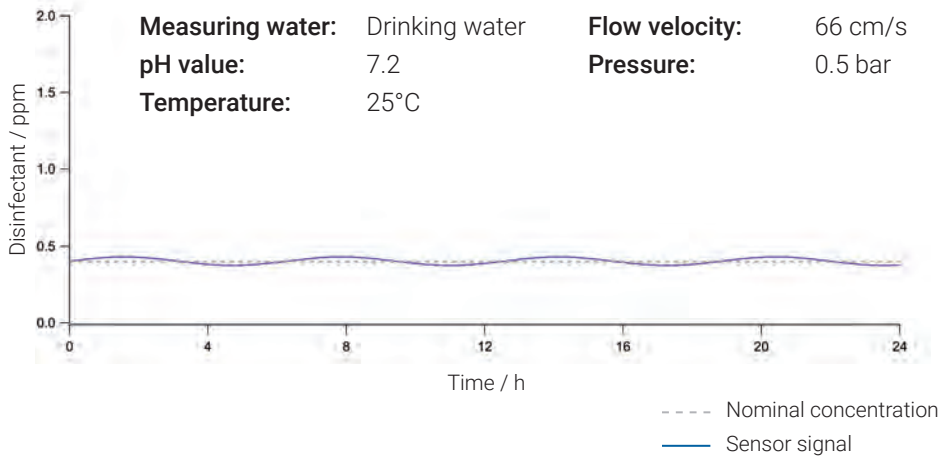
www.reiss-gmbh.com

High accuracy

Our sensors have an accuracy of up to 20 ppb. This allows the precise control of the setpoint value.

Accuracy

Signal of a TARAline CS4/CP4 with a measuring range of 2 ppm

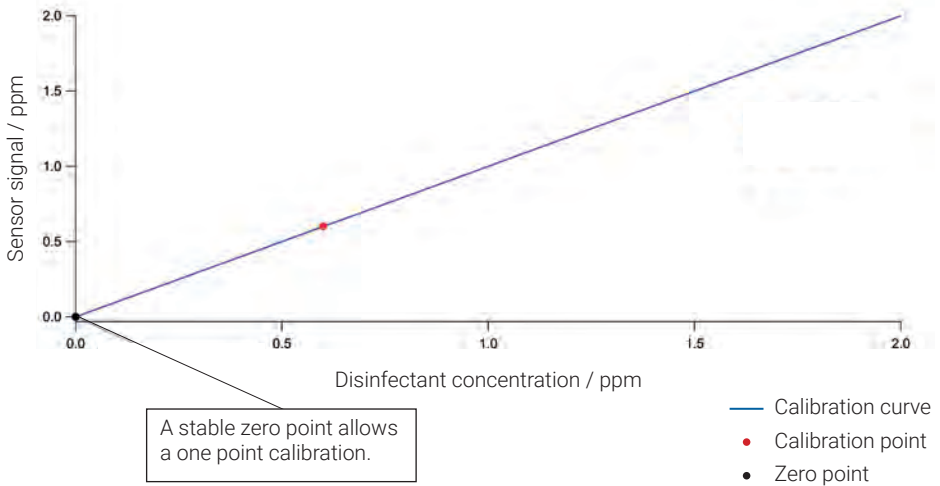


Stable zero point

Advantages

- No calibration of the zero point required
- Allows the measurement of low disinfectant concentrations

One point calibration

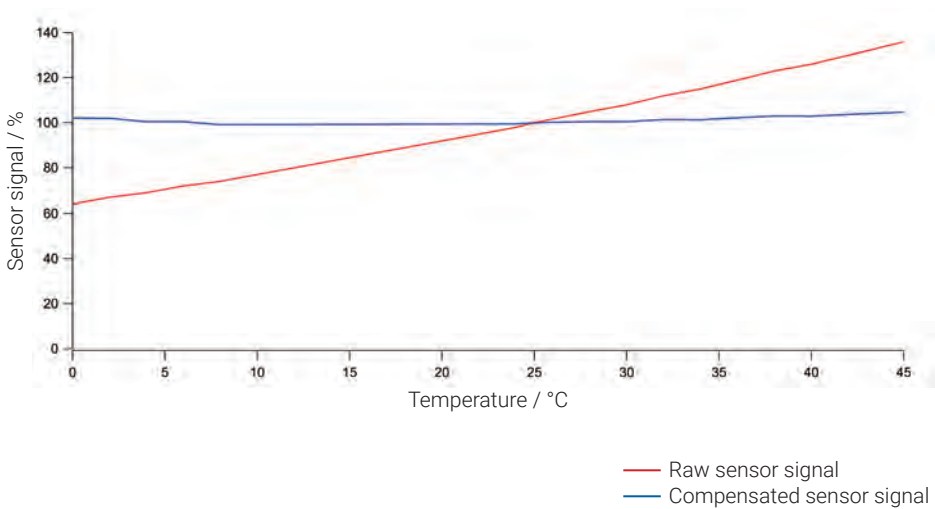


Independence of process water conditions

Temperature

An integrated temperature compensation reduces malfunctions caused by temperature changes in the measuring water.

Temperature Compensation

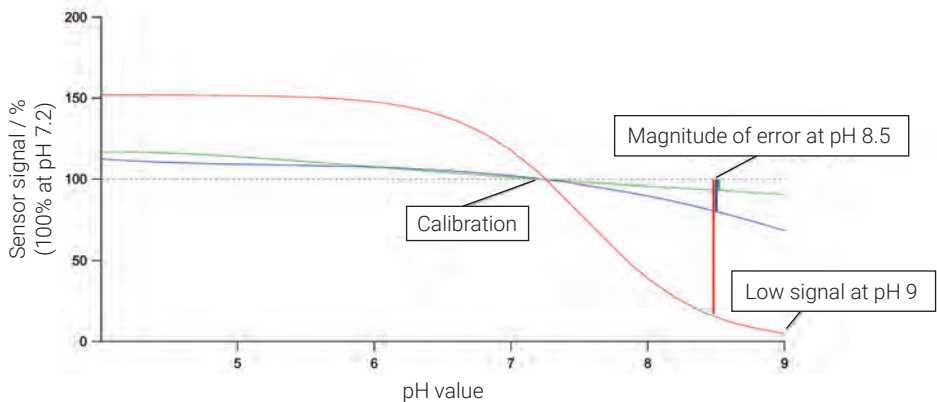


pH value

Thanks to the special electrolyte, the TARALine sensors only have a minimal pH dependency when measuring the disinfectant:

- This eliminates the necessity of a pH sensor for pH compensation
- This reduces the magnitude of error in case of changes of the pH value of the measuring water
- This allows the use of the sensors with pH values of >8.5

Integrated pH compensation

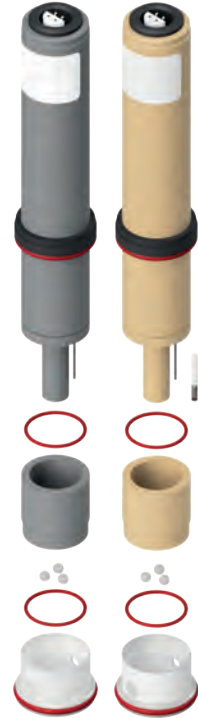


Sensor signal of...

- Standard amperometric sensor
- TARALine CS
- TARALine CP / TARALine CC
- - - Ideal behaviour

High pressures and temperatures

Our TARAsens sensors can be used with temperatures of up to 70°C and pressures of up to 8 bar.

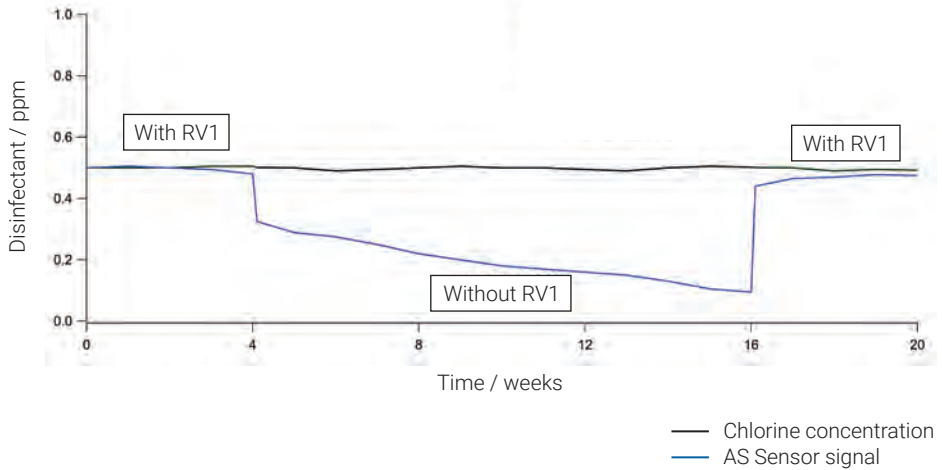


Automatic cleaning device (RV)

Extended maintenance interval for our TARAsens chlorine sensors ensured by RV1.

TARAsens AS-Chlorine Sensor with and without RV1

Measuring water:	Drinking water	Flow velocity:	110 cm/s
pH value:	7.2	Pressure:	8 bar
Temperature:	70°C		



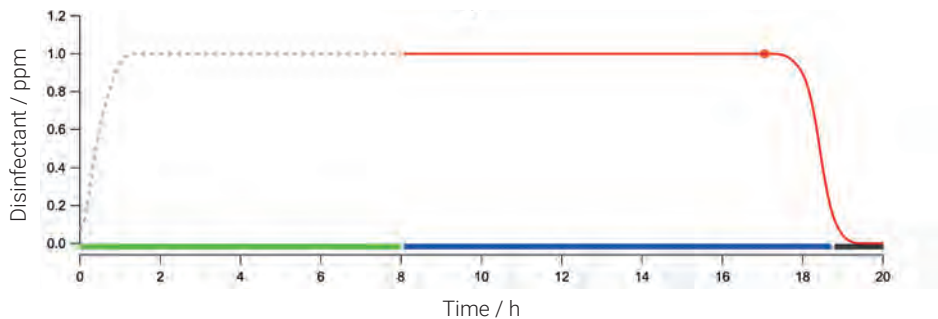
Conductivity and turbidity

- Have almost no influence on the signals of our sensors.

Quality

- 100% quality check with a final function test in a measuring water circuit for about 20 h
 - Signal stability and signal level
After a run-in period, the signal stability and signal level are tested by comparison with the reference method
 - Zero point
Final test of the level and the stability of the zero point
- We only sell sensors which meet our stringent requirements
- The test data are kept during the service life of a sensor
- 2-year warranty for new sensors
- 1-year warranty for sensors reconditioned at our factory

Function Test Procedure



Signals

- Sensor signal during run in period
- Sensor signal for evaluation
- Analytical measurement

Test phases

- Run-in period
- Signal stability and signal level
- Zero point

Delivery

We offer our customers an ample scope of supply with a stock of electrolyte of up to 100 ml.

We deliver TARAsens AS sensors ready for operation.

We can always supply spare parts from stock.

Quality management

Our quality management is certified to ISO 9001.

Made in Germany

All sensors made by Reiss GmbH are manufactured in our factory in Weinheim, Germany.



CONTACT



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