

# Automatic water sampler Liquistation CSF48

Fully automatic sampling in water,  
wastewater and industrial applications



More information and current pricing:

[www.ca.endress.com/CSF48](http://www.ca.endress.com/CSF48)

## Benefits:

- Automatic water sampling in full compliance with all relevant national and international standards such as ISO 5667
- 100% adaptable to any monitoring task from time- or flow-controlled sampling to event-controlled sampling and multiple sampling routines
- By connecting up to four Memosens sensors, the sampler can be upgraded to a fully-fledged measuring station (e.g. for event monitoring)
- Offers all the benefits of the Liquiline platform, such as uniform operation of all devices, easy expandability and reduced need for spare part stock thanks to standardized components
- Fully integrable in any process control system thanks to digital fieldbus communication and remote access via web server
- Quick cleaning and maintenance thanks to easy, tool-free removal of wetted parts
- Heartbeat Technology enables status-oriented maintenance of the device, saving resources and costs

## Specs at a glance

- **Functions** Stationary sampler
- **Suction height** 6 m (19.69 ft) suction height 8 m (26.25 ft) suction height
- **Cabinet** Plastic PS Plastic ASA+PC Stainless Steel V2A Stainless Steel V4A
- **Process temperature** Sample temperature: 2 to 50 °C (36 to 122 °F)
- **Process pressure** Max. 0.8 bar (Max. 11.6 psi)

**Field of application:** Sampling made safe and easy. The Liquistation CSF48 automatic water sampler complies with worldwide water regulation, features a fail-safe cooling system and vandalism-proof housing guaranteeing outstanding safety for your samples. Easy, menu-guided sample programming and tool-free maintenance save you time in your everyday tasks. Liquistation can be upgraded to a complete measuring station for modern environmental monitoring at any time giving you the flexibility to address future demands.

## Features and specifications

### Watersampler

#### Measuring principle

Sampler

#### Functions

Stationary sampler

#### Application

Communal and industrial wastewater treatment plants  
 Laboratories and water management offices  
 Monitoring of liquid media in industrial processes

#### Dosing system

Vacuum pump system  
 Peristaltic pump system  
 Armature

#### Suction height

6 m (19.69 ft) suction height  
 8 m (26.25 ft) suction height

#### Cabinet

Plastic PS  
 Plastic ASA+PC  
 Stainless Steel V2A  
 Stainless Steel V4A

## Watersampler

**Distribution**

Possible

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**Process temperature**

Sample temperature: 2 to 50 °C  
(36 to 122 °F)

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**Cooling**

Active, dynamic cooling unit

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**Process pressure**

Max. 0.8 bar  
(Max. 11.6 psi)

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**Heating**

Evaporator and defrosting unit mounted in compact housing

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**Input**

Analogue: 2, galvanically isolated  
Binary: 2, galvanically isolated  
Optional: 1 to 4 digital sensors

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**Output / communication**

Binary: 2, galvanically isolated  
Optional 2 to 6 relay, 2 to 6 current output

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**Interface**

CDI  
Optional: Ethernet, PROFIBUS DP, Modbus RS485, Modbus TCP

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**Data logger**

All events and data  
Sampling statistics

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**Power supply**

Depending on version:  
100 to 120/200 to 240 V AC  $\pm 10\%$ , 50/60 Hz  
24 V DC  $+15/-9\%$

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## Watersampler

### Dimension

1.258 x 753 x 625 mm (h x w x d)

49.5 x 29.7 x 24.6 inch (h x w x d)

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### Weight

91 to 146 kg

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### Accessories

Sampling from pressurized systems

Dosing system

Housing equipment

Electrical equipment

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### Options

Connection to digital sensors with Memosens protocol,

Fieldbuscommunication

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