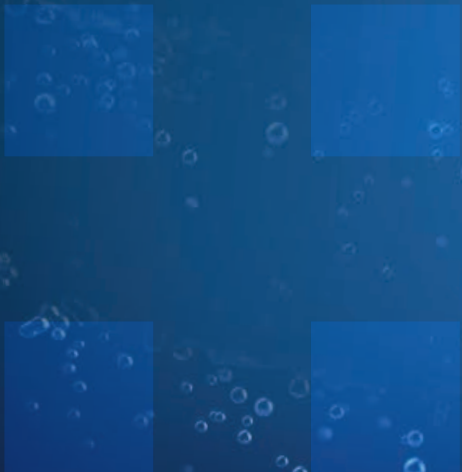


- BOD
- COD
- BTX
- TOC
- DOC
- UV254
- NO3
- NO2

s::can
A Badger Meter® Brand

Monitoring Stations Drinking Water

- NH4
- K+
- Chlorine
- ClO2
- H2O2
- PAA
- F-
- TSS
- Turbidity
- Color
- pH
- ORP
- EC
- Temperature
- O2
- O3
- H2S



Redox Turbidity
Color Chlorine
TOC UV254
Event Detection
Conductivity
pH



- AOC
- Fingerprints
- Contaminant Alarm



Online Monitoring Stations



Choose your Parameters

The s::can stations designed for online monitoring of drinking water are available in different versions:

From standard turbidity and color measurements to monitoring a complex set of parameters with advanced event detection. Choose the station and parameter combination that fits best your needs!



Pre-assembled

The modular monitoring stations combine s::can instruments to a compact and versatile system. For every station the required components - s::can terminal, flow cells, mounting fittings and pipework - are factory assembled on a compact panel. Simply insert the probes and sensors in the flow cells, plug in cables and start measuring.



Save up to 35 %

By buying a complete station instead of all parts separately, you save up to 35 % of the list price. Furthermore you receive a complete package without any need for time consuming configuration.

micro::station

The modular micro::station combines s::can instruments into a compact and versatile system. It presents a complete solution, as the user only has to connect water supply and -discharge (“plug & measure”) in order to receive a previously unheard variety of immediately available information and parameters at no extra cost.

The s::can micro::station is designed for online monitoring of water quality parameters in clean media, such as drinking water.

The required components - spectro::lyser, s::can sensors and controller - are factory assembled with all required flow cells, mounting fittings and pipework on a compact panel.

micro::station - the s::can solution for water analysis, compact and easy like never before.

1 Terminal

con::cube V3 terminal with moni::tool software for data acquisition, data display and station control

2 Spectrometer probe

All s::can spectrometer probes are multi-parameter instruments that can measure a variety of water quality parameters

Possible parameters:

AOC, BOD, BTX, COD, Color, DOC, FTU/NTU, H₂S, NO₂-N, NO₃-N, O₃, TOC, TSS, UV254, Temperature, Fingerprints and Spectral Alarms

3 Flow cell for spectrometer probe

Including auto brush cleaning device to provide cleaning of the optical measuring windows

4 System tubing

Included in panel assembly; Material PU, inside diameter 6 mm, outside diameter 8 mm

5 Flow detector

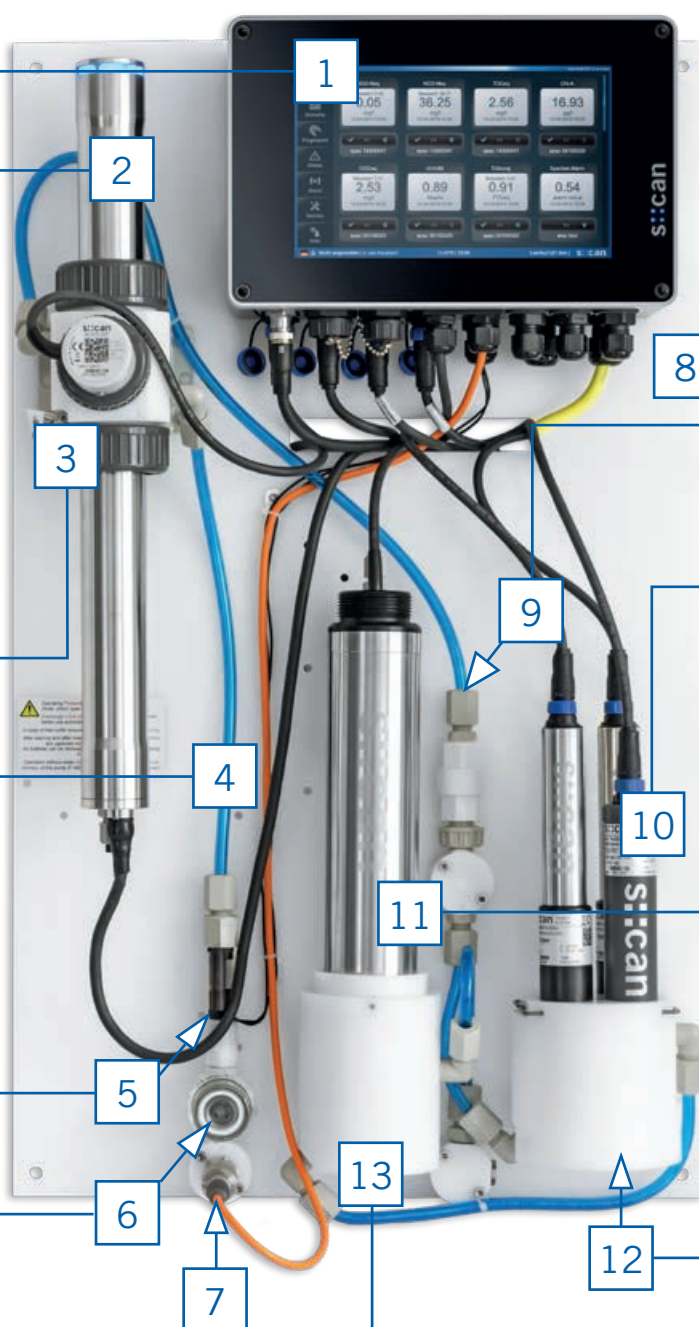
The flow detector is set to give an alarm if the flow rate decreases below a critical value

6 Inlet strainer

The inlet strainer ascertains that no coarse material enters the micro::station. With screw cap for sieve removal/cleaning

7 Pressure transmitter (optional)

Mounting position for pressure transmitter



8 Main panel
Material: PP
Weight of the station (fully equipped): 20 kg (+/- 1 kg)

9 Flow restrictor unit
For automatic flow restriction and back-flow prevention in by-pass

10 Physical probes
Up to four s::can physical probes can be installed in one flow cell
Possible parameters:
Conductivity, FCI/TCI, ClO₂, H₂O₂, PAA, pH, Salinity, Redox and Temperature

11 Physical probe or ISE probe
Place for oxi::lyser, soli::lyser or s::can ISE probe (e.g. ammo::lyser)
Possible parameters:
F-, K+, NH₄-N, NO₃-N, O₂, pH and Temperature

12 Flow cell for physical probes
Combined flow cell for up to four s::can physical probes. Provides quick connect/disconnect design by safety pins to reduce offline time during sensor maintenance

13 Flow cell for ISE probe
Flow cell for one s::can ISE probe

nano::station

The fully modular nano::station combines s::can instruments to a super-compact and versatile system. It presents a complete solution, as the user only has to connect water supply and discharge (“plug & measure”) in order to receive at no extra cost a previously unheard variety of immediately available information and parameters.

The s::can nano::station offers a monitoring solution for many different applications: From very cost sensitive applications down to highly resolved “Smart Water Grids”, in small unmanned plants, or even in single building protection.

The required components - i::scan, s::can sensors and s::can controller - are factory assembled with required flow cells, mounting fittings and pipework on a super-compact panel.

The s::can nano::station - compact, precise and affordable!

1 Terminal

With con::cube V3 or con::lyte terminal. con::cube V3 is equipped with moni::tool software for data acquisition, data display and station control

2 i::scan

One i::scan can be installed on every nano::station

Possible parameters:

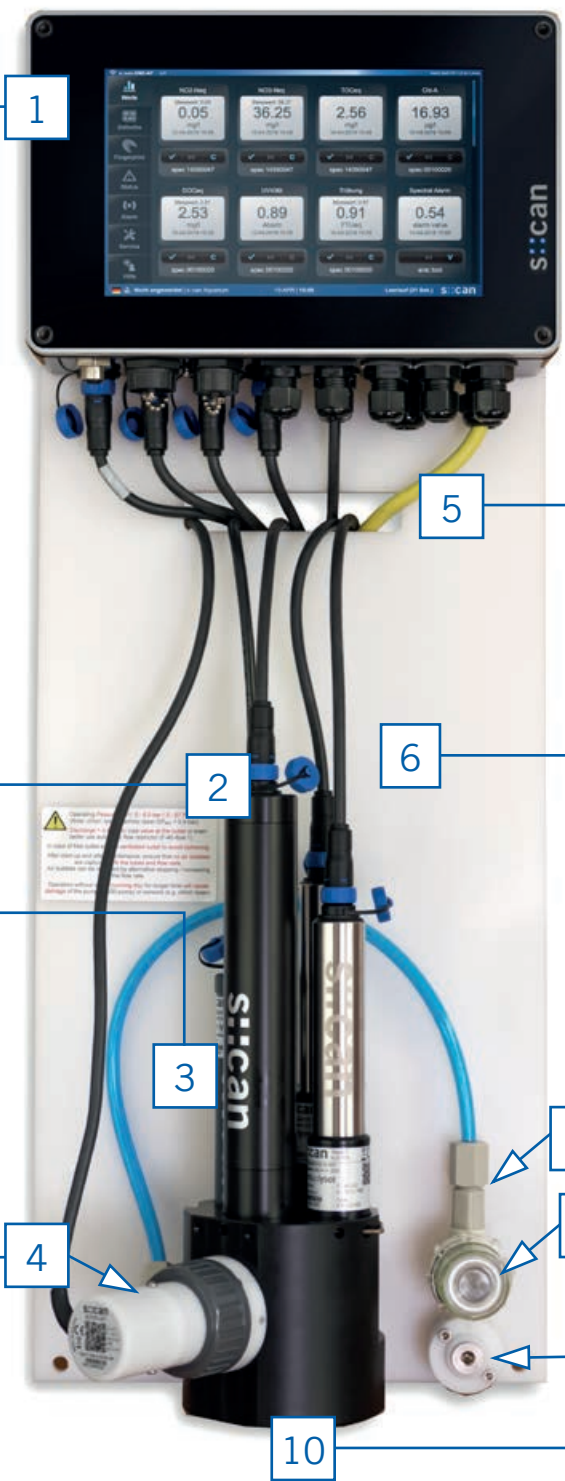
Color, FTU/NTU, UV254, TOC, DOC, Transmission

3 System tubing

Included in panel assembly;
Material: PU, inside diameter 6 mm,
outside diameter 8 mm

4 Autobrush for i::scan

Provides automatic cleaning for i::scan



1

2

3

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9

5 Main panel

Material: PE
Weight of the station (fully equipped):
11 kg (+/- 1 kg)

6 Physical probes

Up to three s::can physical probes can be installed additionally to the i::scan in one flow cell (e.g. condu::lyser, pH::lyser or chlori::lyser)

Possible parameters:
Conductivity, FCl, TCl, ClO₂, H₂O₂, PAA, pH, Redox and Temperature

7 Flow detector (optional)

8 Inlet strainer

The inlet strainer ascertains that no coarse material enters the nano::station. With screw cap for sieve removal/cleaning

9 Pressure sensor (optional)

Mounting position for pressure transmitter

10 Flow cell for i::scan and physical probes

Combined flow cell for one i::scan and up to three s::can physical probes. Provides quick connect/disconnect design by safety pins to reduce offline time during maintenance.
A flow restrictor (optional) can be installed in the flow cell.

micro::station

Parameter Overview


The micro::station is available in two versions for non-chlorinated systems and three versions for chlorinating / chloraminating systems.


	micro-s	micro-m	micro-l	micro-xl	micro-xxl
Spectrometer Probe					
NTU/FTU	■	■	■	■	■
Color	■	■	■		
UV254	■	■	■	■	■
TOC	■	■	■	■	■
DOC	■	■	■	■	■
NO ₃	■	■	■	■	■
NO ₂				■	■
Temperature	■	■	■	■	■
ISE Probe					
NH ₄		■			■
pH		■			■
Physical Probe					
pH	■		■	■	
Conductivity	■		■	■	■
Free or Total Chlorine					
ClO ₂			■	■	■
H ₂ O ₂			■	■	■
PAA			■	■	■
Event Detection					
Online Validation	■	■	■	■	■
Online Alarm	■	■	■	■	■





micro-s

Classical intake protection, event detection, and general drinking water monitoring in non-chlorinated systems

 **Parameters:**
NTU/FTU, NO₃, TOC, DOC, Color, UV254, pH, EC, Temp. & Alarms

 **Terminal:**
con::cube V3 (optional: modem, digital I/Os and analog I/Os)

 **Software:**
moni::tool (8 parameters) and event detection software (vali::tool & ana::tool)

 **Included Components:**
Panel, 2 flow cells, autobrush, pressure sensor, strainer, tubes and fittings, 2 free sensor spaces



micro-m

Advanced intake protection and event detection in non-chlorinated systems



Parameters:

NTU/FTU, NO₃, TOC, DOC, Color, UV254, NH₄, pH, Temp. & Alarms



Terminal:

con::cube V3 (optional: modem, digital I/Os and analog I/Os)



Software:

moni::tool (8 parameters) and event detection software (vali::tool & ana::tool)



Included Components:

Panel, 2 flow cells, autobrush, pressure sensor, strainer, tubes and fittings



micro-l

Complete drinking water monitoring in chlorinating systems



Parameters:

NTU/FTU, NO₃, TOC, DOC, Color, UV254, pH, EC, FCl, TCl, ClO₂, H₂O₂, PAA, Temp. & Alarms



Terminal:

con::cube V3 (optional: modem, digital I/Os and analog I/Os)



Software:

moni::tool (24 parameters) and event detection software (vali::tool & ana::tool)



Included Components:


Panel, 2 flow cells, autobrush, pressure sensor, strainer, tubes and fittings, 1 free sensor space


micro::station





micro-xl

Advanced drinking water monitoring in chloraminating systems

 **Parameters:**
NTU/FTU, NO₃, NO₂, TOC, DOC, UV254, pH, EC, FCI, TCI, ClO₂, H₂O₂, PAA, Temp. & Alarms

 **Terminal:**
con::cube V3 (optional: modem, digital I/Os and analog I/Os)


 **Software:**
moni::tool (24 parameters) and event detection software (vali::tool & ana::tool)


 **Included Components:**
Panel, 2 flow cells, autobrush, pressure sensor, strainer, tubes and fittings





micro-xxl

Complete drinking water monitoring in chloraminating systems

 **Parameters:**
NTU/FTU, NO₃, NO₂, TOC, DOC, UV254, NH₄, pH, EC, FCI, TCI, ClO₂, H₂O₂, PAA, Temp. & Alarms

 **Terminal:**
con::cube V3 (optional: modem, digital I/Os and analog I/Os)

 **Software:**
moni::tool (24 parameters) and event detection software (vali::tool & ana::tool)

 **Included Components:**
Panel, 3 flow cells, autobrush, pressure sensor, strainer, tubes and fittings, 1 free sensor space



nano::station

Parameter Overview

The nano::station is available in three versions. For disinfection monitoring, intake protection and for general drinking water monitoring.

	sno-1	sno-3	ino-2	ino-3	nano-3 (3 parameters)	nano-4 (4 parameters)	nano-6 (6 parameters)	nano-8 (8 parameters)
i::scan								
NTU/FTU		■	■	■	■	■	■	■
Color		■	■	■	■	■	■	■
UV254		■		■	■	■	■	■
TOC								■
DOC								■
Temperature	■	■	■	■	■	■	■	■
Physical Probe								
pH or Redox					■	■	■	■
Conductivity					■	■	■	■
Free or Total Chlorine	■	■			■	■	■	■
ClO ₂	■	■			■	■	■	■
H ₂ O ₂	■	■			■	■	■	■
PAA	■	■			■	■	■	■
PID -Control (optional)	■	■	■	■	■	■	■	
Event Detection								■
Online Validation								■
Online Alarm								■



sno-1 & sno-3

Drinking water monitoring for disinfection with 1 or 3 parameters



Parameters:

sno-1 (choose 1 parameter)
sno-3 (choose 3 parameters):
pH, Redox, EC, TCl, FCl, ClO₂, H₂O₂ & PAA



Terminal:

con::lyte eco or con::lyte pro1
(optional output modules: analog 0/4-20 mA, Modbus or Profibus)



Included Components:

Panel, 1 flow cell, strainer, tubes and fittings



ino-2 & ino-3

Classical intake protection and drinking water protection with i::scan



Parameters:

ino-2: NTU/FTU, Color
ino-3: NTU/FTU, Color, UV254



Terminal:

con::lyte pro1 (optional output modules: analog 0/4-20 mA, Modbus or Profibus)



Included Components:

Panel, 1 flow cell, autobrush, strainer, tubes and fittings



nano-3 & nano-4

Advanced general drinking water monitoring including organics



Parameters:

nano-3 (choose 3 parameters)
nano-4 (choose 4 parameters):
FTU/NTU, Color, UV254, Transmission, EC, pH, Redox, TCl, FCl, ClO₂, H₂O₂ & PAA



Terminal:

con::lyte pro1 (optional output modules: analog 0/4-20 mA, Modbus or Profibus)



Included Components:


Panel, 1 flow cell, autobrush, strainer, tubes and fittings


nano::station




nano-6

Very advanced drinking water monitoring including organics

 **Parameters:**
Choose 6 of: FTU/NTU, Color, UV254, Transmission, EC, pH, Redox, FCI, TCI, ClO₂, H₂O₂ & PAA


 **Terminal:**
con::lyte pro1 (no output modules included)


 **Included Components:**
Panel, 1 flow cell, autobrush, strainer, tubes and fittings





nano-8

Complete drinking water monitoring including organics and event detection

 **Parameters:**
Choose 8 of: FTU/NTU, Color, UV254, TOC, DOC, Transmission, EC, pH, Redox, FCI, TCI, ClO₂, H₂O₂, PAA & Alarm

 **Terminal:**
con::cube V3; moni::tool & event detection software included

 **Software:**
moni::tool (8 parameters) and event detection software (vali::tool & ana::tool)

 **Included Components:**
Panel, flow indicator, 1 flow cell, autobrush, strainer, tubes and fittings





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