BOD

COD

BTX

TOC

DOC

UV254

NO3

NO2

NH4

K+

Chlorine

ClO2

H2O2

PAA

F-

TSS

Turbidity

Color

pH

ORP

EC

Temperature

O2

O3

H2S

AOC

Fingerprints

Contaminant Alarm

s::can
Intelligent. Optical. Online.

Monitoring Stations
Drinking Water

Redox   Turbidity
Color   Chlorine
TOC   UV254
Event Detection
Conductivity
pH

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 imme- diately 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 terminal with moni::tool soft- ware 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, H_2S, NO_2-N, NO_3-N, O_3, TOC, TSS, UV254, Fingerprints and Spectral Alarms, Temperature and Pressure

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
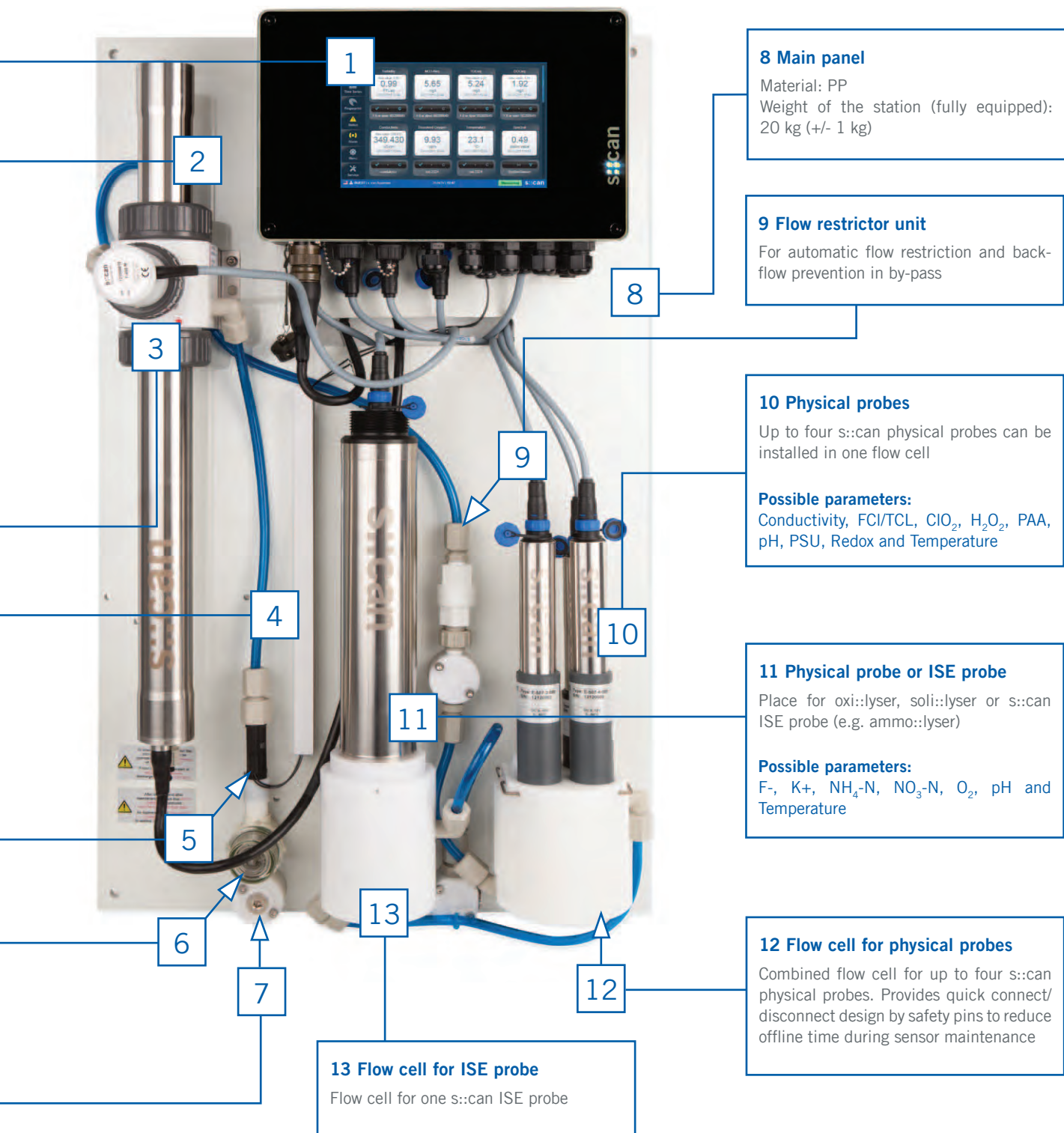
5 Flow detector

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

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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, FCl/TCL, ClO$_2$, H$_2$O$_2$, PAA, pH, PSU, 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+, NH$_4$-N, NO$_3$-N, O$_2$, 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 or con::lyte terminal. con::cube 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
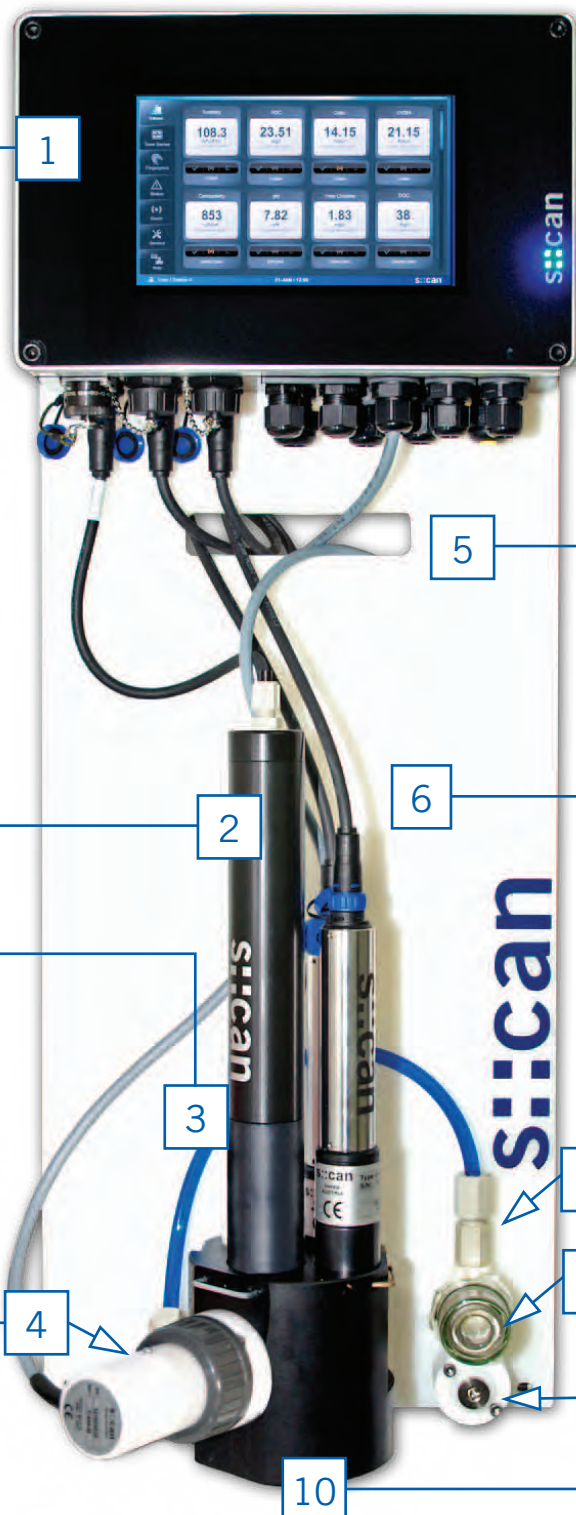
Possible parameters:
Color, FTU/NTU, UV254, TOC, DOC, Transmission

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

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, ClO_2, H_2O_2, 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.

![s::can logo] Intelligent. Optical. Online.

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_2O_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, NO_3, TOC, DOC, Color, UV254, pH, EC, Temp. & Alarms

Terminal:
con::cube (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, NO_3, TOC, DOC, Color, UV254, NH_4, pH, Temp. & Alarms

Terminal:
con::cube (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, NO_3, TOC, DOC, Color, UV254, pH, EC, FCl, TCl, ClO_2, H_2O_2, PAA, Temp. & Alarms

Terminal:
con::cube (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, FCl, TCl, ClO$_2$, H$_2$O$_2$, PAA, Temp. & Alarms

Terminal:
con::cube (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, FCl, TCl, ClO$_2$, H$_2$O$_2$, PAA, Temp. & Alarms

Terminal:
con::cube (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_2O_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, ClO_2, H_2O_2
& 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, ClO_2, H_2O_2 & 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, Transmision, EC, pH, Redox, FCl, TCl, ClO_2, H_2O_2 & 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, FCl, TCl, ClO_2, H_2O_2, PAA & Alarm

Terminal:
con::cube; 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

s::can

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HEADQUARTERS

s::can Messtechnik GmbH
Brigittagasse 22-24
1200 Vienna, AUSTRIA
T: +43 / 1 / 219 73 93
F: +43 / 1 / 219 73 93-12
sales@s-can.at
www.s-can.at

CHINA

Rm D /17F Building B
1118 Changshou Rd.
200042 Shanghai
T: (+86-21) 34 06 03 11
F: (+86-21) 34 06 03 11
lxiao@s-can.cn
www.s-can.cn
Status: Representative Office

FRANCE

s::can France SARL
370 route de Saint Canadet
13100 Aix en Provence
P: + 33 4 42 20 35 01
F: + 33 9 82 25 35 01
sales@s-can.fr
www.s-can.fr
Status: Affiliate

ITALY

s::can Kontakt Italien
Alessandro Morra
T: +39 333 983 5634
amorra@s-can.at
Status: Regional Sales Manager

MEXICO

s::can Mexico Sistemas de
Medición S. de R.L. de C.V
sales@s-can.mx
www.s-can.mx
Status: Affiliate

PORTUGAL

s::can Kontakt Portugal
Vincenzo Rocca
T: +351 91 569 4663
vrocca@s-can.at
Status: Regional Sales Manager

SPAIN

s::can Iberia Sistemas de Medi-
ción S.L.U.
Ciutat de Granada 28 bis,
1a Planta, 08005 Barcelona
P: +34 930 218 447
sales@s-can.es
www.s-can.es
Status: Affiliate

USA

s::can Measuring Systems LLC
38C George Leven Drive
North Attleboro, MA 02760
T: +1 (888) 694-3230
F: +1 (888) 469-5402
sales@s-can.us
www.s-can.us
Status: Affiliate