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

A Badger Meter® Brand

Water Quality OnLine

www.s-can.at

NO2-Neq
0.05
NO3-Neq
36.25
TOCeq
2.56
CH-A
16.93
DOCeq
2.53
UV436
0.89
Trübung
0.91
Spectral Alarm
0.54
s::can

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Intelligent. Optical. Online.

s::can is the world technology leader for submersible online spectrometer probes, water protection systems and event detection software. Since 2020, s::can is a part of Badger Meter Inc., a global provider of industry leading water solutions encompassing flow measurement, quality and other system parameters.

Our products measure a wide range of parameters in numerous applications. From our very solid-state pH-probe to our highly innovative spectral probes, all our products are developed with the same philosophy in mind: s::can measuring instruments are intelligent, robust and require little or no maintenance. They can be seamlessly integrated with other s::can systems but are also compatible with third-party systems.

More than 10 000 s::can monitoring systems are in use worldwide for drinking-, environmental-, waste-, and industrial water applications.

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spectro::lyser V3

The s::can spectro::lyser™ is a fully submersible UV/Vis spectrophotometer which measures light absorbance between 190 and 750 nm.

s::can's proprietary algorithms analyze and decompose the spectral data to provide measurements for many important parameters including: nitrate, nitrite, COD, BOD, TSS, dissolved H_2S and many more. No moving parts and no reagents are used, resulting in extremely low operating costs.

i::scan

The i::scan is a revolutionary miniature spectrometer combining innovative LED technology with state of the art optical measurement. The result is a sensor that is so cost efficient that it will revolutionize water quality monitoring. It can be mounted in-pipe under pressure, so it can be used in a wide range of applications including process optimization, highly resolved 'Smart Water Grids', coagulant control, small water treatment plants, etc.

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Turbidity
0,71
FTU
TOC
0,83
mg/l
DOC
0,47
mg/l
UV254
0,25
Abs/m
EC
380
uS/cm
FCl
0,93
mg/l
pH
6,43
mg/l
Pressure
5,3
bar
Chlorine
pH
Color
Pressure
DOC
Conduc-
tivity
ORP
Turbidity
UV
254

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What do you want to measure?

	max. Parameters*	BOD	COD	BTX	TOC	DOC	UV254	UV XXX (any specific wavelength)	NO_2-N	NO_3-N / NO_3	Chloramine	CLD	Chl-a	TSS / TS	Turbidity	Color	Temperature	O_3	HS- / H_2S	AOC	Fingerprint	Contaminant Alarm	NH_4-N	K+	F-	O_2	pH	ORP	Conductivity	Free / Total Chlorine	Chlorine Dioxide	Hydrogen Peroxide	Peracetic Acid
spectro::lyser V3 (UV-Vis)	>8	■	■	□	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■											
spectro::lyser industrial	8	■	■	□	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■											
spectro::lyser titanium pro	8	■	■	□	■	■	■	■		■				■	■	■	■	■	■		■	■											
spectro::lyser (UV)	8		■	□	■		■	■	■	■				□	□		■	■	■		■	■											
carbo::lyser V3	3	■	■		■	■	■							■	■		■																
nitro::lyser V3	2									■				■	■		■																
multi::lyser V3	4	■	■		■	■	■			■				■	■		■																
uv::lyser V3	5						■	■						■	■		■																
ozo::lyser V3	2													■	■		■	■															
i::scan	8				■	■	■							■	■	■	■																
ammo::lyser	4									■							■						■	■			■						
oxi::lyser	2																■									■							
fluor::lyser	3																■								■		■						
pH::lyser	2																■										■						
redo::lyser	2																■											■					
condu::lyser	2																■												■				
soli::lyser	1													■																			
chlori::lyser	2																■													■			
chlodi::lyser	2																■														■		
hyper::lyser	2																■															■	
peroxy::lyser	2																■																■

* The number of parameters is depending on the specific configuration of the monitoring system.

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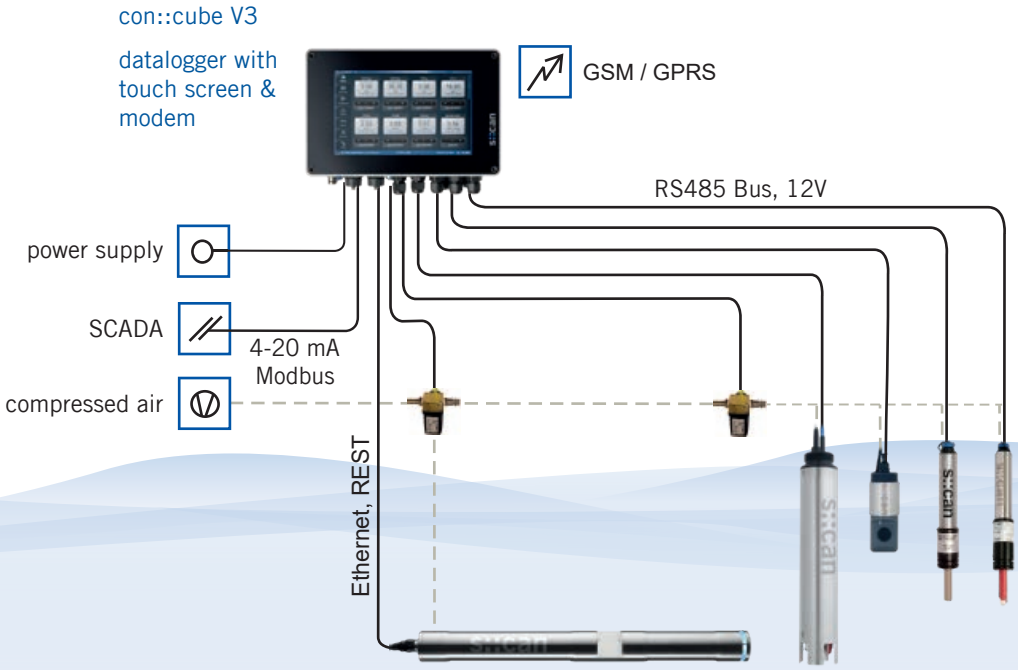
Terminals and Software

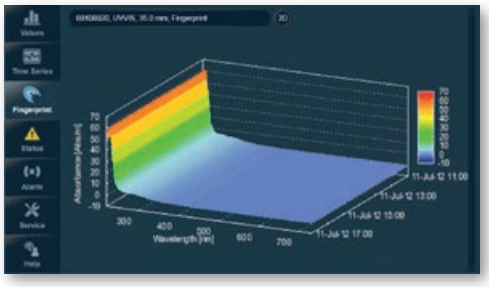
con::cube V3

s::can's con::cube is a compact, powerful and versatile terminal for data acquisition and station control. Integrating the newest processor technology, the con::cube's very flexible options for interfacing to SCADA or any central database systems makes it perfect for station control. Its low power consumption in sleep mode fits the requirements for the operation in remote installations powered by solar panels.



moni::tool

moni::tool is a revolutionary new platform for the management of measuring stations, online probes and analyzers. Whether it is installed in a large monitoring network or as a stand-alone station, moni::tool's intuitive software and state of the art features are an essential backbone for sensor and station management.



Data Validation

vali::tool automatically detects, marks and corrects untrustworthy data, ensuring that only high quality data are fed into the event detection system. It also provides the user with indications on sensor maintenance requirements and automatically detects and signals possible failures of the sensors.

Event detection

s::can's event detection system ana::tool continuously analyzes the spectral fingerprint to detect changes in the water composition. The system responds to deviations of parameters compared to the original fingerprint. It combines Static Alarms, Dynamic Alarms, Pattern Recognition and Spectral Alarms. ana::tool incorporates a simple to use learning system for its alarms that includes user feedback and gradual composition changes (e.g. seasonal variations).

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Your application. Our solution.

s::can monitoring systems are suitable for a wide range of applications, ranging from ultra pure water to industrial waste waters.

Drinking water

Vienna Water counts on s::can for more than 20 years

Compared to other world cities, the municipality of Vienna invested in the sustainable protection of its spring waters at a very early stage. Spectrometer probes from s::can GmbH have been used since 2001. Today 70 systems continuously monitor the water quality in real-time.

Vienna Water

Location:	Vienna, Austria	Key products installed:	spectro::lyser, con::cube, i::scan, con::lyte
Project:	Drinking water monitoring	Parameters monitored:	Turbidity, UV254, UVT, NO_3, TOC, DOC,Fingerprint

Waste water

County of Santa Cruz effectively controls H_2S in its waste-water treatment plant

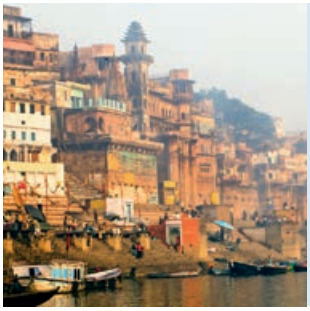
s::can's spectro::lyser monitors and controls the dosing of chemicals to reduce H_2S, improving the efficiency of the dosing, diminishing the odor problem, protecting the environment and lowering the operational costs.

County of Santa Cruz

Location:	California, USA	Key products installed:	spectro::lyser, moni::tool, pH::lyser
Project:	Waste water monitoring	Parameters monitored:	NO_3, dissolved H_2S and pH

More than 10 000 s::can systems are installed all over the world.

Environmental Monitoring



s::can sensors monitor Ganges river quality during world's largest religious gathering

s::can's stations monitor the quality of the water in the Ganges river in India. This results in a better understanding of the contamination of the river by local industry and protects the millions of pilgrims that bathe in the Ganges river.

Indian Central Pollution Control Board

Location:	Ganges, India	Key products installed:	spectro::lyser, ammo::lyser, condu::lyser, oxi::lyser, con::cube, moni::tool
Project:	River water monitoring	Parameters monitored:	COD, TSS, BOD, EC, pH, NH_4, Chloride and DO

Industrial Monitoring

The Oettinger brewery continuously monitors its industrial waste water with s::can

With a total output of 245.7 million gallons per year, the Oettinger group is one of the biggest brewery companies in Germany. The s::can spectro::lyser ensures a complete monitoring of the treated waste water in the brewery's waste water treatment plant.

OETTINGER Brauerei GmbH

Location:	Oettingen in Bavaria, Germany	Key products installed:	spectro::lyser industrial, con::cube
Project:	Industrial Waste Water	Parameters monitored:	COD, NO_3-N and TSS

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