

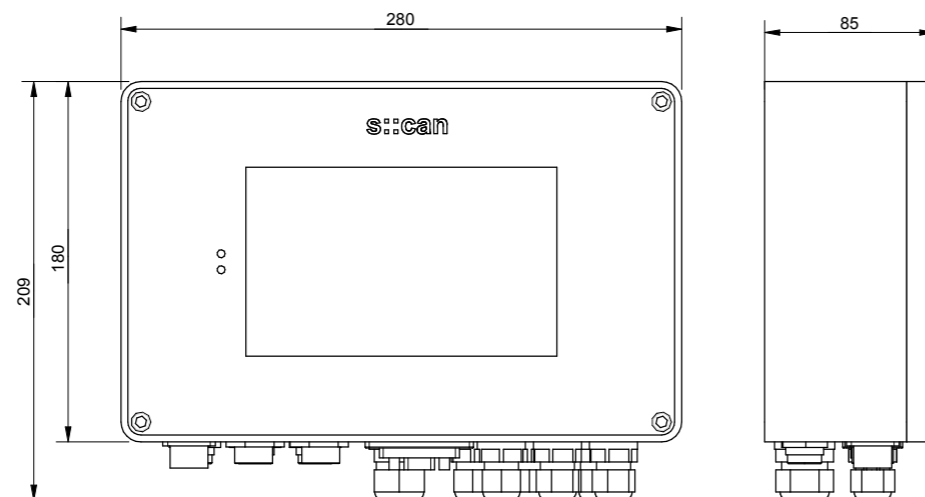
con::cube

**A compact, versatile terminal
for data acquisition and station
control**



con::cube

Newest processor technology and very flexible options for interfacing to SCADA or any central database systems makes the con::cube in combination with moni::tool a powerful terminal for compact station control. The extended input options (e.g. also SDI12 interface) for almost any sensor, analyser and other analogue or digital I/Os result in a very comprehensive way of signal monitoring, processing and data management. Due to its low power consumption this terminal fits the requirements for the operation in remote installations powered by solar panels.



- latest generation of s::can operator terminal
- high-performance, power efficient industrial PC based on newest Intel Atom technology
- wide screen color graphical display (7") and touch screen
- highly intuitive use, touch-and-feel like a cell phone; iconographic drag-and-drop operation on several levels
- plug & play operation of 4 s::can sensors standard; unlimited number of sensors optional. Support for two external cleaning valves
- low power operation with less than 3 watt (@ 15 minutes measuring interval) for solar panel applications
- worldwide network connectivity thanks to quad-band WCDMA and dual-band EV-DO network connection technology
- 802.11n a/b/g WIFI interface integrated for remote control and data transfer with up to 300Mb/s
- highspeed 100Mb/s ethernet interface for integration into larger networks
- easy data transfer via USB-stick
- process interface to SCADA via relay outputs, 4-20mA, SDI12, Modbus RTU(RS485) and Modbus TCP, Profibus DP
- integration of third party sensors via 4-20mA inputs, SDI-12, MODBUS RTU/TCP
- easily extendable with additional analog and digital I/Os utilizing eight available extension slots
- 4 GB onboard memory for data storage
- process software moni::tool_eco pre-installed as a standard; additional software tools (i.e. data validation or event detection) optional
- display of concentration values, historians, optical spectra, and all events in clear text
- easy configuration, calibration and administration of full s::can monitoring stations and networks
- display and management of an unlimited number of parameters


technical specification

integration of	1 x s::can spectrometer probe and 3 x s::can sensors or ISE probes	power supply	100-240 VAC (50-60Hz)
additional sensors	any number of additional sensors optional	grounding	<0.5 Ohm to process media
display	VGA color-display 7" TFT (optional)	power consumption (typical)	10 W (no display, no analogue ports); 30 W (fully equipped)
function indicators	2 x LED	power consumption (max.)	20 W (no display, no analogue ports); 60 W (fully equipped)
operation via	integrated touch-screen (optional) Ethernet - Browser or VNC WIFI - Browser or VNC USB (keyboard, mouse) 3G modem (optional)	analog outputs (optional)	up to 16 x 4-20 mA
RAM memory	1 GB RAM	outputs for automatic cleaning	2
onboard memory	4 GB FLASH	system error relay	1 x 2A (250 VAC)
interface connection to s::can spectrometric probes	1 x MIL, IP 68, RS485, 12 VDC	dimensions (width x height x depth, per box)	280 x 209 x 85 mm
interface connection to s::can sensors	3 x sys plug, IP 68, RS485, 12 VDC	housing material	aluminium alloy, powder coated
interface connection to other sensors	RS485 Modbus, SDI-12, up to 16 x 4-20mA input	weight (min.)	2 kg (no display); 3 kg (incl. display)
network connection	Ethernet LAN	operating temperature	-20 ... 50 °C
interface to SCADA	Modbus RTU or TCP, Profibus DP (optional), SDI-12	storage temperature	-20 ... 60 °C
data transfer	via PC or USB stick	storage humidity	5 ... 90 %
remote control & data synchronisation	via Ethernet / XML protocol	protection class	IP 65



Water Quality OnLine

s::can is the only firm in the world that has given its heart and soul to online water quality monitoring. Since our foundation 10 years ago, nothing else has come out of our development department, nothing else has come out of our production sites.



Today our product range covers an absolutely state of the art measuring instrument for each individual parameter for typical applications in the areas of water, waste water, environmental monitoring, and industrial applications. Whether it is a simple pH sensor or a complex spectral probe, s::can measuring instruments are intelligent and compatible with each other in s::can systems and with third-party systems.

Organically developed, constantly tried and tested, and often proven: Optical works best. It doesn't matter whether it is COD, TOC, N03, N02, TSS, turbidity, dissolved oxygen, or many others besides. Whenever an optical method is available, we use it; when not, we develop one. Optical methods are the most reliable, the simplest, have the lowest cost, and, above all, they are usually the most accurate. If ever a measurement is impossible by optical methods, then we just use the best alternative method that comes closest to our focus.

We are proud of having created all this in less than 10 years and also to have set new standards in water monitoring along the way. For example, in 2000 when we brought our first spectro::lyser™ to the market we established online UV spectrometry in sensor format in the marketplace years ahead of the competition. Today, with well over 2000 systems sold, we are the undisputed global market leader in this segment and can continue to call ourselves the technological leader.

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