

## SEAGUARD® Sensor String

The new AADI SEAGUARD® Sensor String is designed to be connected to the SEAGUARD® Platform. The string can fit up to 20 AiCaP Sensors. Real-Time communication and control is available using the AADI Real-Time Collector.

### SEAGUARD® Sensor String advantages:

- Custom specified outlet position for fastening fixture
- Each fastening fixture can fit 2 sensors
- Low maintenance
- Sensor output format: AiCaP
- Real-Time data transmission (RS422)
- For use in sea and fresh water
- Up to 20 AiCaP sensors
- Up to 300m cable length (Preliminary)

The SEAGUARD® Sensor String is designed to be connected to the SEAGUARD® Platform. The string can fit up to 20 AiCaP sensors. The design of the cable top- and bottom end provides an easy and smart extension of the cable; the maximum cable length is 300m. The position of the sensor fastening fixture is custom specified.

The SEAGUARD® Sensor String offers a highly flexible configuration making the system a perfect tool for measurements of e.g. dissolved oxygen, conductivity, temperature, pressure and tide etc. A typical application is monitoring of a water column.

The output parameters are easily presented in SEAGUARD Studio. Each sensor connected to the string can be tagged with e.g. the depth

position for easy recognition of correct parameter.

The SEAGUARD® Sensor String and the AADI smart sensors are interfaced by means of a reliable CANbus protocol (AiCaP) using XML for plug and play capabilities. The smart sensors are automatically detected and recognized after instrument power up.

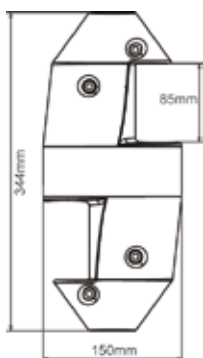
The SEAGUARD® Sensor String can be used with AADI Real-Time Collector for Real-Time data and Real-Time communication with the instrument.

# Specifications, sensor string

D388 - March 2009

*CT String*

*Temperature -  
Oxygen String*



*Outlet dimensions*

*Examples of String Configurations.*

*Leftmost:  
Downwards looking instrument with Conductivity and Temperature sensors monitoring the water column.*

*Rightmost:  
Upwards looking instrument with Temperature and Oxygen sensor.*

*Note! The platform can also be equipped with optional sensors.*

<b>Outlet capacity:</b>	2 sensors per outlet
<b>Outlet position:</b>	Customised (on the cable)
<b>Sensor connection:</b>	AiCaP
<b>Communication connection:</b>	RS422
<b>Outlet dimensions:</b>	344x150mm (LxW)
<b>Cable length:</b>	Maximum 300m (preliminary)
<b>Cable capacity:</b>	Maximum 20 AiCaP Sensors, of which max 10 optodes/conductivity sensors
<b>External power:</b>	12 - 30V, 2A (depends on supply cable). External power through string or separate cable. Internal power boost.
<b>External battery:</b>	7-14 V. Diode protection is required, unconditionally, when using an external battery. Internal power boost.
<b>Current drain:</b>	Depends on sensor configuration
<b>Operating temperature:</b>	-5 – +40°C (23 – 104°F)
<b>Cable weight in air:</b>	~40kg per 100m cable
<b>Outlet weight in air:</b>	1kg ex sensors
<b>Outlet material:</b>	PA66 30% Glass filled
<b>Warranty:</b>	Two years against faulty materials and workmanship
<b>Accessories:</b>	Bottom end cable 4784
<b>(not included)</b>	AiCaP connection cable 9634
	Bottom end cable 9635 and Electrical Terminal 4810,4618
	Conductivity sensor 4319, refer D369
	Temperature sensor 4060, refer D363
	Pressure sensor 4117, refer D362
	Oxygen optode 4330, refer D378
<b>String platform accessories:</b>	Refer D 366
<b>(not included)</b>	Turbidity sensor 4112 (ana), refD377
	Z-pulse DCS 4420/4520, refer D 367
	Wave and Tide sensor 4648, ref D383

*Specifications subject to change without prior notice.*

## AADI Real-Time

The data message from the instrument is in XML format. A user application can access the AADI Real-Time Collector over the Internet or Intranet. Each user application will experience an individual connection to the instrument data due to a queue management system in the collector. One license per SEAGUARD® instrument serves multiple user applications. Including AADI Real-Time Collector, AADI Real-Time Viewer, Style Sheets and example application (See B163)

## Offline Configuration

The Seaguard Offline Configuration is a PC application used to create and modify configuration files for the SEAGUARD®. The configuration files can be imported to one or multiple SEAGUARD® instruments using a compatible memory card (SDcard) (See TD 275).

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