

AUTOMATIC WEATHER STATION 6700

Technical Details

SmartGuard: Datalogger for control of sensors, storage of data and management of communication solutions. Input signals from sensors are routed through standardized connecting cables.

For more information see [datasheet D401](#)

Sampling intervals:	>2sec
Stored data:	SD-card
Screen:	LCD
Communication:	Radio, mobile, iridium and AIS

Mast Section 2772

Material:	Hard anodized aluminium
Height:	4m, additional height on request

Cabinet 4720 with cone for mast and (hinged base).

Size:	H=850mm W=550mm D=300mm
Material:	Aluminium

Cabinet 4471, small cabinet.

Size:	H= 620mm W= 400mm D= 230mm
Material:	GUP

Rainfall 4628: Output signal:

Digital, also available with heating, part no. 4628H. Mounted on Tube with Base Plate 3285 and Extension Tube 3776.

For more information see [datasheet D408](#).

Range:	200mm/interval
Accuracy:	12mm/min.max
Funnel:	±2% 200cm

Tide sensor 5217/5217R:

Compact fully integrated sensors for measuring the tide conditions.

Sampling rate:	2Hz, 4Hz
Integration time:	10 sec. - 8 min

SeaGuardII DCP: The SeaGuardII DCP Wave is a 600kHz Doppler Current Profiler able to measure directional wave parameters and currents from a bottom mounted installation.

Wave sampling:	2Hz or 4Hz
Wave range:	0.2m- 20m
Integration interval:	5-30min

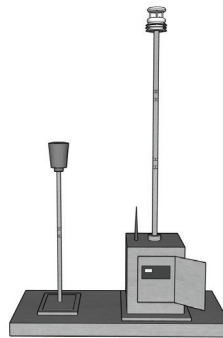
3 party sensors: Gill MaxiMet Series

Parameters:	Air pressure, Humidity, Rainfall, Temperature, Wind speed and Wind Direction
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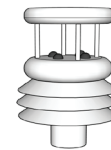
3 party sensors: Vaisala WXT530 Series

Parameters:	Air pressure, Humidity, Rainfall, Temperature, Wind speed and Wind Direction
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AWS 6700 is a flexible and rugged metrological and hydrological monitoring platform suited for use in a wide range of field applications. Data can be recorded on site or be transmitted in real-time.



Metrological and hydrological monitoring platform



Met, Multi Parameter Sensor

Features

- Flexible configurations
- Real-time or on-site data storage
- Long-term unattended operation
- Automatic transmission of data

The Automatic Weather Station 6700 consists of light, compact units which are quick and easy to install.

A typical minimum installation consists of a compact multi-parameter meteorological sensor, a communication device and an Aanderaa SmartGuard Data Logger. The meteorological sensor, placed on top of the mast, is delivered by a 3rd party supplier, preferably Gill or Vaisala. The mast is supported by a freestanding cabinet which is bolted to the ground. A simple cabinet for pole- or railmounting is also available.

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PRELIMINARY

Expanding the station by adding new sensors is easy and straightforward. Aanderaa provides sensors and cables for hydrological measurements.



Tide Sensors

The tide sensors are compact fully integrated sensors for measuring the tide conditions. Typical applications for the sensor are measurements of tide in ports and harbours, marine operations, weather forecast, and climate studies.



SeaGuardII

The SeaGuardII provides information about the currents and waves. It features innovative development of the acoustic profiling ability to collect high quality current and wave information.



SmartGuard Datalogger

The information AWS provides is all collected in the SmartGuard Datalogger located in the Cabinet. The SmartGuard is designed for ease of integration of new and existing sensor technologies into a single Aanderaa observatory with modern self-describing data output formats.



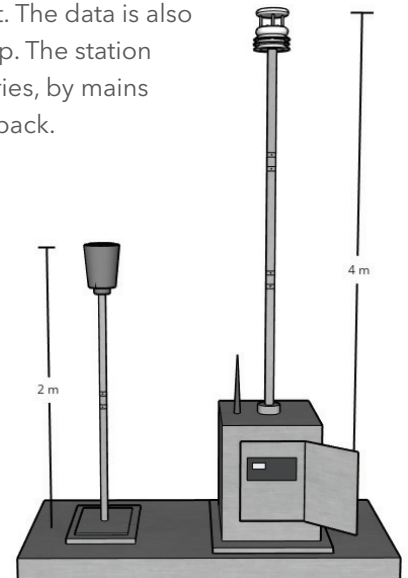
Real-time Data

Real-time output of data can be delivered via 3G/4G modem, radio and satellite and is made available in a well documented format. The data is also stored on a removable SD-card inside the logger for backup. The station has low power consumption and can be powered by batteries, by mains AC power through an AC/DC Adapter or by a solar power pack.

Typical application areas

- Extreme environment monitoring
- Stand-alone weather stations
- Vessel traffic systems (VTMS), marine weather and sea state
- Ports and harbours ocean/met systems

Data display can either be through Aanderaa GeoView or any other data management system. Data Display can be provided as a cloud based or on premises solution.



Automatic Weather Station 6700

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