

DESALINIZATION PLANTS

Data Buoys are used by Desalinization plants to monitor water quality



To meet the ever-increasing demands for fresh water, especially in arid and semi-arid areas, much research has gone into finding efficient methods of removing salt from seawater and brackish waters. Several processes are being developed to produce fresh water cheaply.

If one has to arrive to a permanent and concrete solution to the ever-rising problem of water scarcity and contamination, then there could not be a better option other than Desalination plants. In countries like U.A.E. and Saudi Arabia, desalination has solved many of the problems of water scarcity and purity.

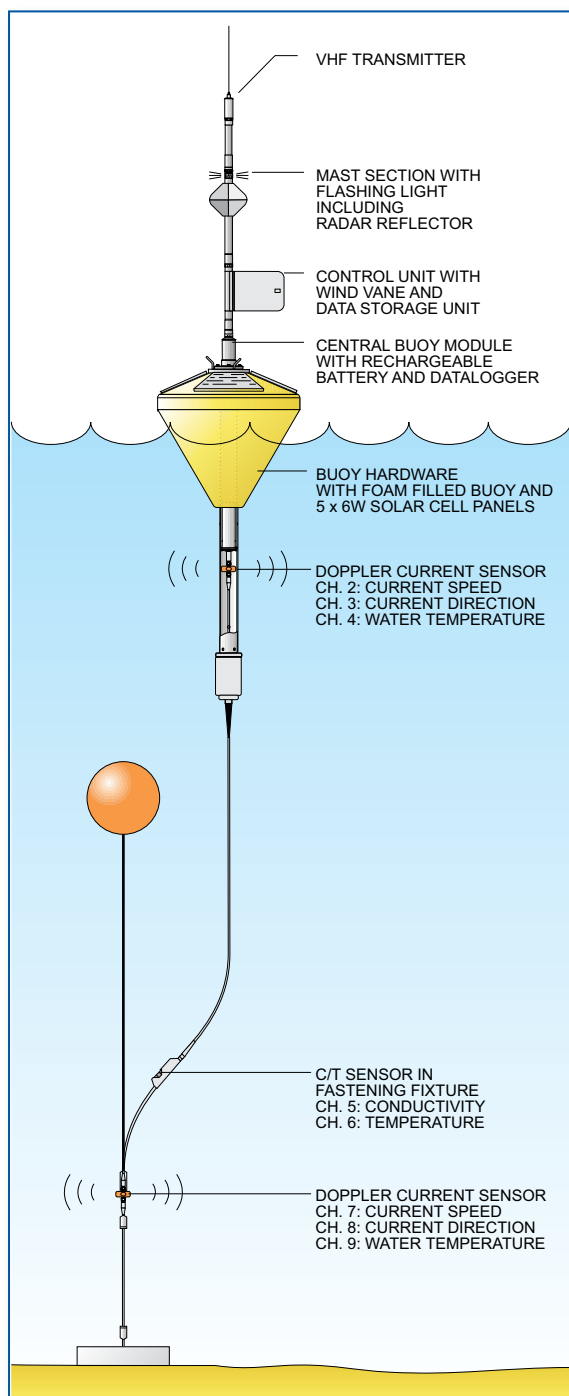
Desalination plants need to monitor salt or brackish water intakes and discharge/spill water to fully realize the impact these have on the immediate environment. By knowing intake water quality the plant is able to produce fresh water more efficiently.

Discharge water from Desalination plants can be up to +60 Degrees C and steps must be taken to monitor the influence it has on marine and aquatic life.

Aanderaa Data Buoys are used extensively worldwide to provide Environmental Impact Studies of areas around plants and are installed to keep track of environmental parameters like Current Speed, Direction and Water Temperature.



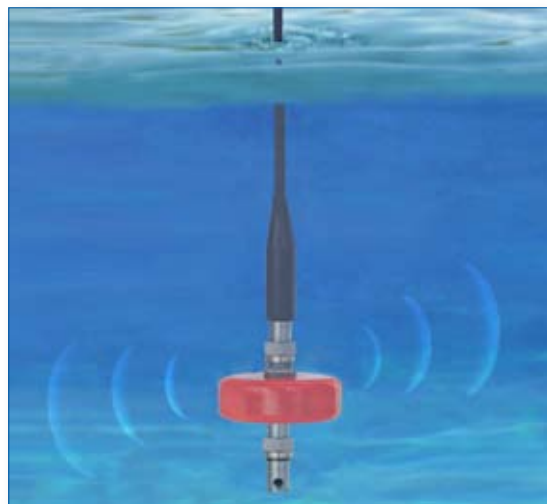
Data Buoys from Aanderaa monitor salt water at Desalinization Plants



In addition other variables Conductivity, Dissolved Oxygen, pH, Salinity, Turbidity Water Level and Wave Height can be added to the Buoy.



Fastening Fixture



Doppler Current Measurements

Meteorological sensors can also be added to the Buoy's superstructure if required. Air Pressure, Air Temperature, Visibility, Net Radiation, Rainfall, Relative Humidity, Solar Radiation, Sunshine Duration, Wind Speed/Gust and Direction are available.

Measured data can be stored onboard in Data Storage Units or transmitted in real-time to surveillance offices via a variety of communication systems:

- VHF/UHF Radio Communication (one way)
- Radio Modem (one way)
- GPRS Communication (one way)
- GSM Communication (two way)
- ARGOS Satellite (one way)
- Orbcomm Satellite (one way and GPS)
- IRIDIUM Satellite (two way and GPS)

Data can be accumulated in databases and used to provide information to interested third parties either as files or through the internet.

For more information please see our web site.
<http://www.aadi.no>

