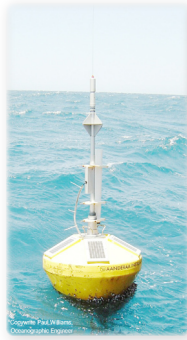


# COMMUNICATIONS SYSTEMS

Aanderaa provides many communication solutions and they are all interchangeable!



Communication can often cause headaches when installing large or small systems. We have the solutions below.

The simplest, most cost effective and with the lowest power drain is a **VHF/UHF RADIO SYSTEM**

- No transmitting costs.
- Real time data.
- Range up to 8km (5 miles) "line-of-sight" over sea (depending on local conditions).
- Range up to 50km (31 miles) "line-of-sight" on land.
- Compatible with Display Program 3710 from AAI.
- More available frequencies in the UHF band, than in the VHF band.



Another cost efficient solution with low power drain is a **RADIO MODEM**

- No transmitting costs.
- Real time data.
- Range up to 20km (12.5 miles) "line of sight" over sea (depending on local conditions and the receiving-antenna's height above sea level).
- Range up to 70km (43 miles) "line-of-sight" on land.
- Compatible with Display Program 3710 - product from our Engineering Department.



If free sight is a problem and you do not need data in real time, a **GSM system** may be the solution

- Used when no "line of sight" between transmitter and receiver is attained.
- Range dependent on local GSM network.
- Two-way communication enabling remote programming and data retrieval.
- Low power consumption.
- Compatible with Display Program 3710M from Aanderaa Instruments.
- Data acquired at predetermined times.
- Pay for the time you are connected.



If free sight is a problem and data is required in real time, a GPRS system may be the answer

- Used when no “line of sight” between transmitter and receiver is attained.
- Range dependent on local network.
- Compatible with Display Program 3710C from AAI.
- Real time data through Internet.
- Cost effective, you only pay for the data you send.



Satellites are the solution if the above solutions are impossible due to range problems

If reliability is the main concern, ARGOS satellite system

- Low power consumption.
- Worldwide coverage.
- High reliability, system has been active since 1978.
- Data transmission via modem.



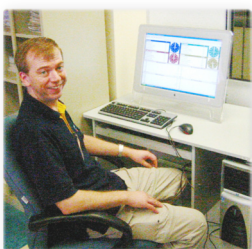
If price is the main concern, ORBCOMM satellite system

- Low power consumption.
- Almost worldwide coverage, but not good coverage in Polar Regions.
- Includes GPS.
- Data received by e-mail or FTP.
- Data can be displayed on web - product from our Engineering Department see Forskningsenter Risøe, Denmark, at: [www.risoe.dk/vea-data/jylexdata.htm](http://www.risoe.dk/vea-data/jylexdata.htm)
- Cost efficient.



If complete coverage and low power consumption are concerns, Iridium satellite system

- Complete coverage of the Earth, including oceans and Polar Regions.
- High regularity.
- Lowest power consumption of the satellite solutions.
- Data transferred at predetermined times via PC.



For more information about the satellite systems above please go to:  
<http://www.orbcomm.com>; <http://www.iridium.com>; <http://www.argosinc.com>

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