MekaSense™

- open standards based sensor platform -
Who are we?

- Technology and manufacturing company of products and solutions containing electronics, electro mechanical assemblies, and firmware
- Offering services from initial idea to finished product and everything in between
- In business for 50 years and since 2014 under the current name Mekatronikk
- Located in Bergen in modern and well equipped facilities
- Serving customers within oil&gas, aquaculture, medical, electric utilities, broadcast, defence, and consumer
The aquaculture market

• Compared with other industries the aquaculture market seems far behind when it comes to standardization and systems thinking

• The market is full of quite advanced sensor systems used more or less as standalone solutions

• Going forward with increasingly more data and automation we are convinced that the aquaculture market needs to take actions to get from data to information and decision systems, and prevent look-in to specific suppliers
From supplier to customer driven solutions

- Having experience from other markets like the electric utilities and the broadcast it is remarkable how the aquaculture market is dominated by supplier driven products and solutions.
- Our recommendation would be that the customers in the aquaculture market is a lot more involved in the development of standards based and interoperable solutions.
- Other industries has already done a lot of the groundwork and it is OK to copy some of it and adopt what is necessary to the specific needs of the aquaculture market.
What do you need?

• It is essentially 3 things a sensor and automation platform does:
  – Get values (GET)
  – Set Values (SET)
  – Events (Alarms and Information)

• All of the major telecom networks use the SNMP (Simple Network Management Protocol) to do this while most electric utilities use one or more standards based SCADA (SuperVisory Communication and Data Acquisition) protocols

• A huge number of equipment suppliers already support these protocols and are interoperable with each other

• Graphical front end systems from freeware to more costly specialist systems are readily available
MekaSense™

• A scalable and standards based industrial sensor platform
• Wired and wireless interfaces for communication with sensors, actuators, and front end systems
• Support cloud based as well as customer installed front end systems for control, visualisation and event handling
MekaSense™

- Modular platform with function blocks for hardware and software
- Interchangeable main processor for realtime operating system (Linux), or embedded 32 bits system gives full flexibility
- Selectable enclosures for indoor and outdoor use
- Available in AC or DC powered versions
MekaSense™ - how to use it

• MekaSense can be used as an interface towards specific sensors or sensor systems
• MekaSense can be used as a gateway between proprietary solutions and protocols and a standards based environment
• MekaSense can gather all of your sensor and control signals to make it one homogenously system
• MekaSense can perform specific and advanced functions by the use of scripting language
MekaSense™ - the way forward

• The MekaSense platform will be further developed with new hardware and software components
• Already several different customers base their solutions on different versions of the MekaSense platform
• The goal is to keep the MekaSense as the most affordable, flexible, and competitive hub in the marketplace
Thank you!

For more information

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