

# Monitoring your projects

TARKA-SYSTEMS is the one-stop solution to monitor your project based on knowledge of sensors, data-acquisition hardware and visualisation software.

Nowadays applications are getting bigger and more complex, therefore good monitoring and visualisation is crucial for safe and controlled operation. Due to 15 years of experience of making measurement equipment for field application, TARKA-SYSTEMS can provide rugged measurement systems which are client-specific and easy-to-use.

From experience in the field all tools and measurement equipment should be basic, simple and without any overhead.

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The visualisation is based on a tailor-made user-interface without any unnecessary options or settings. The software recognises data from the most common data sources and store them in a suitable format for easy analysing.

The systems have a modular setup and can be easily adjusted or extended for other projects.

### What TARKA-SYSTEMS can provide:

- Complete solutions
- Reliable Hardware
- Reliable Software
- Sensor knowledge
- Installation / assistance on-site
- Practical experience
- Complete layout

### Benefits for the client:

- One-stop solution
- Single investment for multiple projects
- One system for all data sources
- Reduce development costs
- Improve uptime
- Easy to analyse data
- Improve response time
- Reduce setup time
- Improve safety

### Possible parameters during wind farm installation:

- Barge/Ship motions
- Barge/Ship position (GPS)
- Barge mooring forces
- Crane motions
- Load forces, stresses and motions
- Environmental data (wave, wind)

TARKA-SYSTEMS provides data-acquisition systems to gather and store all types of parameters.

The products of TARKA-SYSTEMS are made for field applications and run on batteries or permanent power.

The systems are used in the Offshore, Dredging, Mining, Research, Salvage, Structural and Civil engineering areas. The systems can be (semi)permanent, portable in rugged cases or as handheld tools.





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To whom it may concern,

Barge Master develops and produces wave compensated platforms for the marine and offshore / near shore construction industry. For the development and testing of such a motion compensation system, Barge Master required a Measurement Integration System (MIS) with the following functionalities:

- Read a wide variety of measurement signals from various digital and analog sources via Ethernet, analog 4-20 mA inputs, Profibus and multiple serial connections with different sample rates.
- Read and log all streaming measurement signals synchronically into one measurement file including time stamp.
- Possibility to view the live data during the measurement.
- Direct access to the data without further offline post-processing.

The complete hardware and software for the MIS was developed, built, installed on site and tested by Tarka Systems in close cooperation with Barge Master. The in-house knowledge at Tarka Systems of both measurement hardware and software resulted in a quick and efficient development of the system. The software of the MIS was very easy to operate without complex user interfaces. The flexible setup of the system allowed easy addition of an extra sensor, even after delivery of the system.

Summarised, the Measurement Integration System was delivered by Tarka Systems in a very professional way, helping Barge Master to analyse and test the motion compensation system.

Yours faithfully,

Jim Koppenol  
R&D Engineer