

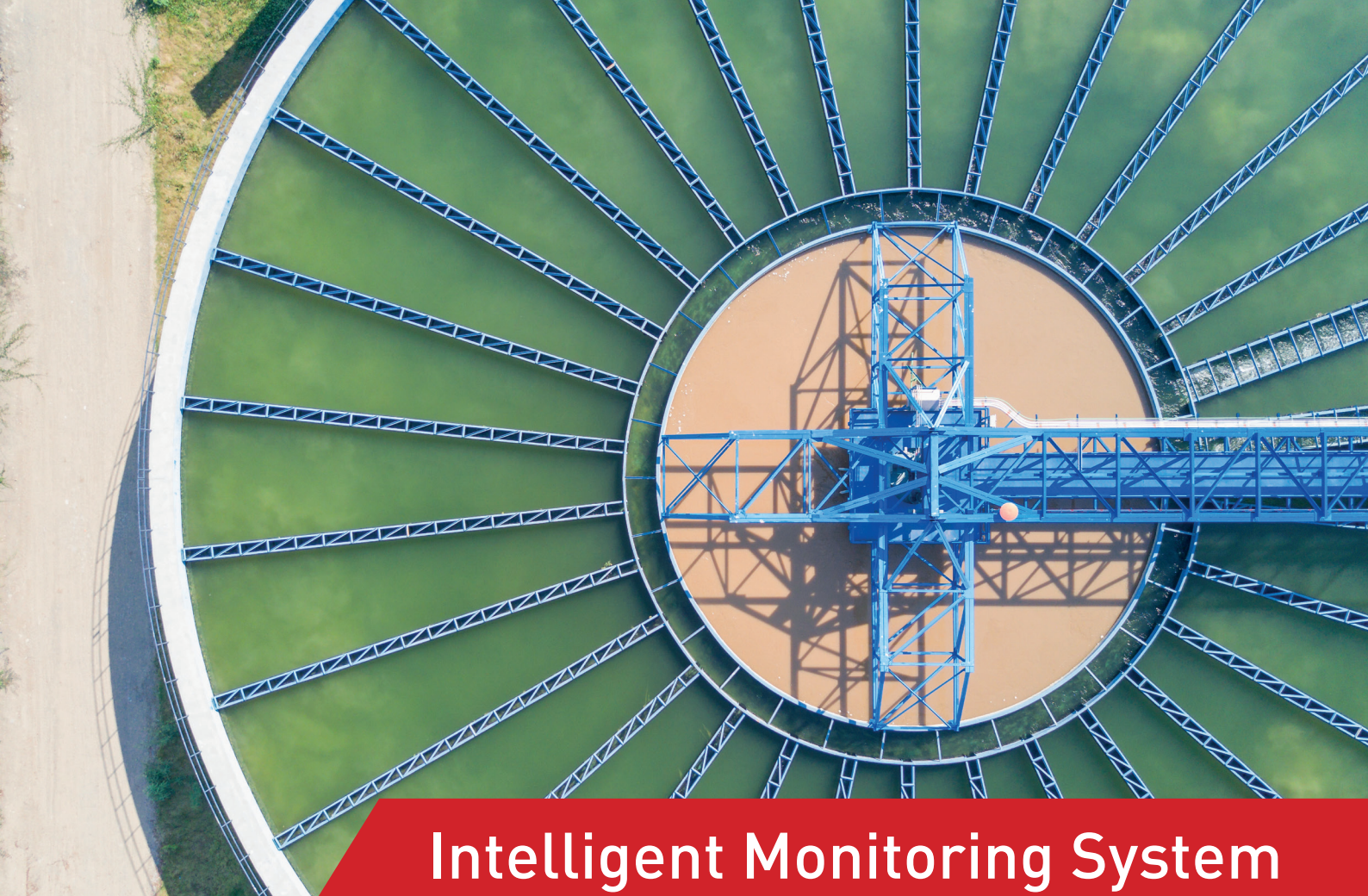
**INPIRIO®**  
ADVANCED SYSTEMS

Electronic Engineering Services

# Intelligent Monitoring System Water & Wastewater Industry







# Intelligent Monitoring System Water & Wastewater Industry

**Intelligent Monitoring – iMS** from **INPIRIO AS** is the process of monitoring a parameter of condition for **Water & Wastewater Industry** (vibration, temperature, relative displacement, air, gap, etc.), in order to identify a significant change which is indicative of a developing fault.

It is a major component of Predictive maintenance.

The modularity of the Intelligent Monitoring System allows customization of all critical user information for optimized asset management.

Accountability for risks and more importantly, for the controls and the monitoring, assurance of controls is clear and not doubtful.



**Speciality to predict**





# Features of Intelligent Monitoring System Water & Wastewater

**Expert on-line monitoring system for Water & Wastewater Industry**  
Modular and upgradeable system for new, as well as for existing  
Water & Wastewater equipment

## IMS Features


- > Expert on-line monitoring system for Water & Wastewater Industry
- > Modular and upgradeable system for new, as well as for existing
- > Long-term data storage and important events tracking
- > Restrictive class based data archiving (smart/real trending)
- > Local and remote system access
- > Automated warning based on real trending
- > Detection of problems related to bearings, eccentricity and rotor cage
- > Unique approach for all integrated equipment
- > Preventive maintenance of key equipment
- > Longer life expectancy
- > Support in decision making through remote access
- > Reduction of cost due the unplanned stops caused by machine faults
- > Participation of users in the creation of unique system based on custom requests





**“We are constantly helping you measure  
the risk exposure of your system.”**



A high-speed photograph of a water splash, showing a crown of water droplets and bubbles against a white background. The water is a deep blue color.

# Concept of Expert on-line monitoring system for Water & Wastewater

Our system uses more than a hundred sensors for various measurements and can be adapted to meet customer specific requirements and situations.

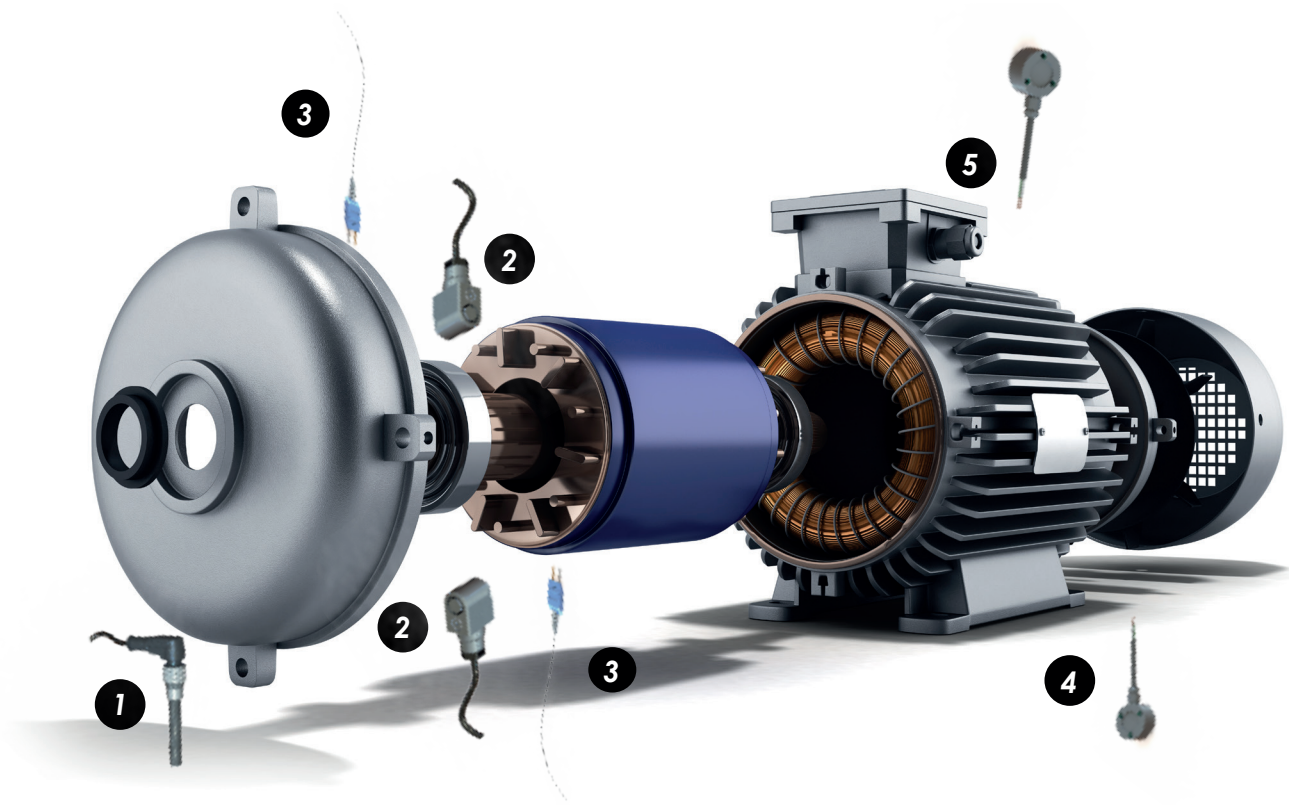
**The Hardware is made to meet the strictest standards depending on the operational environment (dust, humidity, magnetic field protection, water, etc.) and most of the hardware can be adapted to meet the visual requirements for the customer.**



More than a hundred sensors for various measurements and can be adapted to meet customer specific requirements

## SENSORS:

1. Displacement sensor (bearing/shaft)
2. Vibration sensor (bearing)
3. Temperature sensor (bearing)
4. Motor current sensor (connection box)
5. Magnetic field sensor (air gap)







“The main purpose of Intelligent monitoring analysis is to provide you a Risk Mitigation.”







## HV Squirrel - Smart Cage Induction Motors

### WATER COOLED

- > 160 – 15000 kW
- > 3000 – 13200 V

### RIB COOLED

- > 160 – 2000 kW
- > 3000 – 10000 V

### CLOSE AIR CIRCUIT COOLED MOTORS

- > 160 – 15000 kW
- > 3000 – 13200 V

### DRIVES

- > Pumps
- > Mills
- > Fans
- > Crushers
- > Conveyers
- > Compressors

### APPLICATION

Power plants, Irrigation, Pump Station, Steel Industry,  
Pipe Lines, Process Industry







## Summary:

### Performance:

We are using our broad experience to support efforts to maximize availability and reliability, and optimize process performance and maintenance planning

### Assured QUALITY:

Our equipment is built to last as we provide units with extended temperature range and IP range up to IP69

### Modularity:

Our system is completely modular, so new measurements can be easily added without system downtime, or with as little downtime as possible

### User friendly:

Web interface with our system is completely user-friendly, and can be tailor-made to the clients specific wishes

### Easy implementation:

- Implementation of our system is made to be easy and with as little downtime as possible

### Smart trending:

- For the highest level of the system (**ZERMATT**) – smart trending is offered – trending of all data with a specific, or multiple restrictive classes in mind.

# Contacts

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Notes:



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