

Metrological Requirements Definition Form

It is up to the user to define their metrological needs. To do this, it is good practice to create a technical specification sheet that clearly defines the intended use of the sensor and the constraints encountered.

1. Operating Conditions and Environmental Constraints

Location and Environment

- **Deployment depth:** _____ m
- **Deployment duration:** _____
- **Current intensity:** _____ m/s (min/max)
- **Expected biofouling level:** Low Moderate High
- **Other specific constraints:** _____

Type of Measurement and Regulations

- **Parameters to measure:** _____
- **Measurement subject to regulations:** Yes No
- If yes, specify: _____

2. Technical Specifications

Measurement Range

- **Primary parameter:** _____
- **Unit:** _____
- **Standard:** _____
- **Required range:** from _____ to _____.
- **Desired spatial and temporal resolution:** _____

Uncertainty Requirements

- **Maximum acceptable uncertainty:** \pm _____ or \pm _____ %

3. Influence Parameters

Environmental Physical Conditions

- **Temperature:**
 - Expected range: _____ to _____ °C
 - Influence on measurement: Negligible Moderate Critical
- **Pressure:**
 - Expected range: _____ to _____ bar
 - Influence on measurement: Negligible Moderate Critical
- **Salinity:**
 - Expected range: _____ to _____ PSU

- Influence on measurement: Negligible Moderate Critical

Other Identified Influence Parameters

- **Parameter 1:** _____ | Impact: Low Medium High
- **Parameter 2:** _____ | Impact: Low Medium High
- **Parameter 3:** _____ | Impact: Low Medium High

4. Budget Constraints

Cost

- **Available budget:** _____ €
- **Acquisition cost:** _____ €
- **Estimated annual maintenance cost:** _____ €
- **Calibration costs:** _____ €/year

5. Additional Information

Measurement Frequency

- **Desired acquisition frequency:** _____
- **Operating mode:** Continuous Sequential On-demand

Data Recovery

- **Recovery method:** Real-time transmission Periodic recovery
- **Communication interface:** _____

Form creation date: _____

Contact: _____