Turtle Tough Application Questionnaire

Welcome to the Turtle Tough Liquid Analysis Application questionnaire. Turtle Tough custom make systems to meet the world's most demanding industrial liquid analysis applications. This doesn't happen by chance and each measurement solution is engineered to your unique requirements. To ensure our engineers can provide you with the very best solution we ask you to take a few moments to tell us more about your measurement requirements.

Name: _____

Email: _____

Phone: _____

Street Address: _____

City: _____

State / Province / Region: _____

ZIP / Postal Code: _____

Country: _____

Signature: _____

Please note that by signing this form you agree that the information provided is true and correct. Any subsequent system or sensor specifications provided by us will be based on this information. Turtle Tough will not be held liable for any adverse system performance where it relied upon incorrect information provided.

Application Type

Please select your application type. What type of measurement would you like to monitor?

(If you have more than one measurement, please submit multiple forms).

- ☐ pH
- ☐ ORP (Oxidation Reduction Potential)
- ☐ Conductivity
- ☐ Dissolved Oxygen
- ☐ Ion Selective

☐ Cyanide	☐ Calcium	☐ Ammonium
☐ Chloride	☐ Nitrate	☐ Ozone
☐ Fluoride	☐ Sulphide	☐ Sodium
☐ Nitrite	☐ Perchlorate	☐ Potassium

Which scenario best describes you measurement requirement?

- ☐ We currently do not monitor the process in this location and are not sure on the process parameters. We will require a complete system consisting of both analyser and sensor.
- ☐ We have experience in monitoring the process, but not in this location. We have an approximate idea of the process parameters and require a complete system consisting of both analyser and sensor.
- ☐ We currently monitor the process in this location but would like to improve the performance of our existing monitoring system.

Please provide a general description of your application. Please describe your plants process and what the process solution is?

_____

_____

_____

_____

_____

Product Selection, What do you need help with?

- ☐ I need help making an appropriate product selection.
- ☐ I need Turtle Tough to develop a custom solution to solve my measurement problem.

Process Information

What would you expect to be the typical concentration range of the parameter you are trying to measure?

pH Ranges

- ☐ -2 to 2
- ☐ 2 to 4
- ☐ 4 to 7
- ☐ 7 to 10
- ☐ 10 to 14
- ☐ I'm not sure.

ORP Ranges

- ☐ 2000 to -1200
- ☐ -1200 to -400
- ☐ -400 to +400
- ☐ +400 to +1200
- ☐ +1200 to +2000
- ☐ I'm not sure.

Conductivity Ranges

- ☐ 20.0 (6.0-34.0) 0 to 1,000,000 microSiemens(uS)/cm
- ☐ 10.0 (3.0-17.0) 0 to 500,000 microSiemens(uS)/cm
- ☐ 2.0 (0.6-3.4) 0 to 100,000 microSiemens(uS)/cm
- ☐ (0.3-1.7) 0 to 50,000 microSiemens(uS)/cm
- ☐ 0.2 (0.06-0.34) 0 to 10,000 microSiemens(uS)/cm
- ☐ (0.03-0.17) 0 to 5,000 microSiemens(uS)/cm
- ☐ 0.1L (0.05-0.15) 0 to 200 microSiemens(uS)/cm
- ☐ (0.005-0.015) 0 to 500 microSiemens(uS)/cm
- ☐ 0.01L (0.005-0.015) 0 to 20 microSiemens(uS)/cm
- ☐ I'm not sure.

Dissolved Oxygen Ranges

- ☐ Up to 2000ppb
- ☐ Up to 5 ppm
- ☐ Up to 20 ppm
- ☐ Up to 40 ppm
- ☐ Up to 60 ppm
- ☐ I'm not sure.

Ion Specific Concentration Range: _____

Do you know the major constituents in your process?

- ☐ No
- ☐ Yes. If yes, please list the major constituents and their concentrations:

Are there any solvents in your process?

- ☐ No
- ☐ Yes. If yes, please provide your process' solvent contents:

Is there any particulate matter (particle pollution) in your process?

- ☐ No
- ☐ Yes. If yes, please provide your process' particulates content:

Other Important Process Parameters, please provide details in the space below:

Max Temperature	_____	☐ I'm not sure
Max Pressure	_____	☐ I'm not sure
Max Flow Rate	_____	☐ I'm not sure
Viscosity	_____	☐ I'm not sure

Installation Information

To provide an appropriate solution we need some further detail.

How will you install this sensor in the process?

☐ An immersion rod

☐ I need a new immersion rod.

How far will the analyser be from the top of the immersion rod? _____

☐ I already have an immersion rod.

What is the material of the immersion rod? _____

How far will the analyser be from the top of the immersion rod? _____

What is the thread size or fitting on the end of the immersion rod? _____

☐ A T-fitting

☐ I need a new T-fitting.

How far will the analyser be from the T-fitting? _____

☐ I already have a T-fitting.

What diameter is the line? _____

What thread type or connection on the T-fitting? _____

How far will the analyser be from the T-fitting? _____

☐ A flow cell

☐ I need a new flow cell.

How far will the analyser be from the flow cell? _____

☐ I already have a flow cell.

What is the insert thread or fitting into the flow cell? _____

How far will the analyser be from the flow cell? _____

☐ A valve assembly

☐ I need a new valve assembly.

How far will the analyser be from the valve assembly? _____

☐ I already have a valve assembly.

What is the diameter of the valve opening? _____

What is the insertion length through the valve assembly? _____

How far will the analyser be from the valve assembly? _____

☐ A sanitary flange

☐ I need a new sanitary flange.

How far will the analyser be from the sanitary flange fitting? _____

☐ I already have a sanitary flange.

What is the diameter sanitary flange fitting? _____

What is the insertion length through the sanitary flange fitting? _____

How far will the analyser be from the sanitary flange fitting? _____

☐ Other Describe: _____

_____

_____

Process Instrumentation

To provide an appropriate solution we need some detail on your existing analyser.

Could you please tell us what is the make & model number of your existing analyser?

_____

_____

What is the distance from your analyser to your sensor? (Metres)

_____

_____

What is the make and model of the sensor?

_____

_____

What is the cable length? (Metres)

_____

_____

My existing analyser is equipped with: *

- ☐ Digital Output
- ☐ 4-20mA Analogue Output
- ☐ Relays
- ☐ Data logging
- ☐ SMS or Email Alert
- ☐ PID controller
- ☐ Hazardous Area Certification
- ☐ Other: _____

My ideal analyser would be equipped with: *

- ☐ Digital Output
- ☐ 4-20mA Analogue Output
- ☐ Relays
- ☐ Data logging
- ☐ SMS or Email Alert
- ☐ Other: _____

To provide an appropriate solution we need some detail about the issues you are having with your existing sensor

My existing sensor lasts on average (weeks): *

- ☐ Up to 1 week
- ☐ 4 weeks
- ☐ 12 weeks
- ☐ 26 weeks
- ☐ 52 weeks
- ☐ 104 weeks

Please choose the scenario that best describes your current situation. My existing sensor: *

- ☐ does not last long enough
- ☐ is too hard to maintain
- ☐ gets fouled or clogged easily
- ☐ requires frequent calibration
- ☐ breaks easily
- ☐ do not provide the required accuracy
- ☐ is too expensive

My Ideal Sensor: *

- ☐ Has a long life
- ☐ Is easy to clean and maintain
- ☐ Is highly accurate
- ☐ Is low cost

Thank you for completing the Turtle Tough Application Questionnaire. A member of our team will assess your requirements and contact you with information and recommendations regarding how Turtle Tough can help you to meet and exceed your measurement objectives.