

## ITEM OPPORTUNITY SYNOPSIS

<b>Scouting Number:</b>	2024-053
<b>Name of the item to be scouted:</b>	Rugged Data Logger
<b>State item to be used in:</b>	Ohio
<b>Describe the Item:</b>	
Please describe the item application/the end use of the item.	Rugged data loggers that can be deployed for long periods of time in water to measure level, temperature and conductivity. Must be equal to or better than the Solinst Levellogger 5 LTC.
<b>Supplier Information:</b>	
<b>Type of Supplier Being Sought (select from the list below):</b>	
Manufacturer	x
Contract Manufacturer	
Distributor	
Other (Please Specify)	
<b>Reason for Scouting Submission (select from the list below)</b>	
2nd Supplier	
Price	
Re-Shore	
Past supplier no longer available	
New Product Startup	
BABA	x
Other (Please Specify)	
<b>Summary of Technical Specifications and Performance Requirements:</b>	
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Electronic Assembly
Provide dimensions / size / tolerances / performance specifications of the item	no larger than 12"x4" Please see attached document for additional information.
List required materials needed to make the product, including materials of product components, if applicable	Various
Are there applicable certification requirements?	
Yes	
No	x
Please explain:	
Are there any applicable regulations that apply to the production of this item?	
Yes	
No	x
Please explain:	
Are there any other standards / requirements?	
Yes	
No	x
Please explain:	
<b>Additional Comments:</b>	
Additional technical comments:	
<b>Volume and Pricing:</b>	
Estimated Potential Business Volume (i.e. #units per day, month, year):	20 units
Estimated Target Price/Unit Cost Information:	\$1421 each or lower
<b>Delivery Requirements:</b>	
When is it needed by? (Immediate, 30 days, 6 months, etc.)	2 months
Describe packaging requirements (i.e. individually/group packaging, etc.)	Individually Wrapped
Where will this item be shipped?	Cincinnati, OH
<b>Additional Comments:</b>	

<b>Is there other information you would like to include?</b>	<p>- "Vendor/company must be registered or will register in SAM.gov (<a href="https://sam.gov/content/home">https://sam.gov/content/home</a>)."</p> <p>- "This inquiry does not guarantee award of a contract."</p> <p>- "EPA requires a commercial off the shelf instrument that is immediately available that meets the technical specifications attached. Vendors shall provide documentation that their proposed product meets or exceeds the technical specifications attached."</p>
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## Levelogger 5 LTC

Level, Temperature, Conductivity

The Levelogger® 5 LTC logs water level, temperature, and conductivity. It combines a datalogger, 8-year battery, Hastelloy® pressure sensor, temperature detector, and conductivity sensor within a small waterproof housing, 22 mm x 208 mm (7/8" x 8.2"). A baked-on coating using polymerization technology protects the body against corrosion, abrasion and high temperatures. The conductivity sensor is a 4-electrode platinum sensor, with autoranging capabilities. The minimal-maintenance, sealed Levelogger 5 LTC is simple to clean and calibrate, even in the field.



## Levelogger 5 LTC Specifications

<b>Level Sensor:</b>	Piezoresistive Silicon with Hastelloy Sensor
Ranges:	5, 10, 20, 30, 100, and 200 m
Accuracy:	±0.05% FS
Resolution:	0.001% FS to 0.0006% FS
Units of Measure:	cm, m, ft, psi, kPa, bar (°C, °F)
Normalization:	Automatic Temperature Compensation
Temp Comp. Range:	0°C to 50°C
<b>Temperature Sensor:</b>	Platinum Resistance Temperature Detector (RTD)
Accuracy:	±0.05°C
Resolution:	0.003°C
<b>Conductivity Sensor:</b>	4-Electrode Platinum
Full Range:	0 – 100,000 µS/cm
Calibrated Range:	50 – 80,000 µS/cm
Accuracy:	±1%: 5,000 µS/cm – 80,000 µS/cm; greater of ±2% or 15 µS/cm: 50 µS/cm – 5,000 µS/cm
Resolution:	±0.1 µS/cm
Temp Comp. Range:	0°C – 50°C
Normalization:	Specific Conductance @ 25°C
Battery Life:	8 Years (1 reading every 5 minutes)
Clock Accuracy (typical):	±1 minute/year (-20°C to 80°C)
Operating Temperature:	-20°C to 80°C
Maximum Readings:	100,000 sets of readings
Memory:	Slate or Continuous
Communication:	Optical high-speed: 57,600 bps with USB
Size:	22 mm x 208 mm (7/8" x 8.2")
Weight:	200 grams (7.06 oz)
Corrosion Resistance:	Baked-on coating using polymerization
Wetted Materials:	Platinum, Delrin®, Viton®, 316L Stainless Steel, Hastelloy, Regulator approved PFAS-free PTFE (inside and out)
Sampling Mode:	Linear, Event & User-Selectable with Repeat Mode, Future Start, Future Stop, Real-Time View
Measurement Rates:	2 seconds to 99 hours
Barometric Compensation:	Software Wizard and Barologger 5


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## Levelogger 5 LTC Features

- Large memory: 100,000 sets of data
- Stable communication: single-eye optical, easy to clean, more scratch resistant
- Strong, robust design: double o-ring seals for two times over pressurization rating
- Enhanced thermistor and conductivity sensitivity: accurate platinum RTD and conductivity sensor
- Superior protection in harsh conditions: baked-on coating using polymerization—inside and out

## User-Friendly Operation

Software Calibration and Data Wizards guide you through conductivity calibration and barometric compensation, ensuring accurate data sets. The Data Wizard also converts conductivity readings to Specific Conductance (@ 25°C).

Levelogger Software allows you to easily program your preferences, download data, and display data in a graph or table format or export to other programs. Real Time View allows immediate viewing of live water level, conductivity, and temperature readings.

Leveloggers are easy to deploy; install with direct read cables or wireline/cord suspension. The Levelogger 5 LTC is SDI-12 compatible using the Solinst SDI-12 Interface Cable.

Download data in the field using the Field Reader 5, DataGrabber 5 USB data transfer device, or through Bluetooth® using the Levelogger 5 App Interface and your smart device. Integrate the Levelogger 5 LTC with Solinst Telemetry Systems, which use the latest wireless technologies.

Models	Full Scale (FS)	Accuracy	Resolution
<b>M5, C80</b>	5 m (16.4 ft.)	± 0.3 cm (0.010 ft.)	0.001% FS
<b>M10, C80</b>	10 m (32.8 ft.)	± 0.5 cm (0.016 ft.)	0.0006% FS
<b>M20, C80</b>	20 m (65.6 ft.)	± 1 cm (0.032 ft.)	0.0006% FS
<b>M30, C80</b>	30 m (98.4 ft.)	± 1.5 cm (0.064 ft.)	0.0006% FS
<b>M100, C80</b>	100 m (328.1 ft.)	± 5 cm (0.164 ft.)	0.0006% FS
<b>M200, C80</b>	200 m (656.2 ft.)	± 10 cm (0.328 ft.)	0.0006% FS

## Levellogger 5 LTC Applications

- Salt water intrusion and soil salination monitoring
- Plume remediation monitoring and studies
- Leachate monitoring at landfills, mine tailings, waste disposal storage sites, and more
- Agricultural and stormwater runoff monitoring
- Create a historical database for potable water supply monitoring
- Tracer tests

## Biofoul Screen

When a Levellogger 5 LTC is deployed for an extended period, there is the risk of biofouling on the pressure sensor and/or conductivity cell, which can compromise their readings.

The Biofoul Screen is designed to reduce the unwanted buildup of microorganisms, plants, algae, or organisms such as barnacles and mussels, on the sensors. The Biofoul Screen consists of a Delrin sleeve wrapped with copper wire. Slip onto the sensor end of a Levellogger 5 LTC, where it is held in place by compression fit.

Using the natural anti-fouling characteristics of copper, the Biofoul Screen is an affordable option to lengthen the time a



*An optional Biofoul Screen provides extra protection for the Levellogger 5 LTC pressure and conductivity sensors in harsh environments.*

Levellogger 5 LTC can be deployed. It reduces site visits and time spent cleaning Levelloggers, and improves long-term performance by ensuring accurate sensor measurements.

## Levellogger 5 App Interface

The Solinst Levellogger App is designed to communicate to Solinst dataloggers via your smart device. Programming options include start/stop, data downloading, linear and real-time sampling, future start/stop, and GPS coordinates.

The Levellogger 5 App Interface uses Bluetooth wireless technology to connect with your smart device running the Solinst Levellogger App. Use our Levellogger 5 App Interface and a Solinst direct read cable to communicate to a downhole Levellogger and email data files right from the field (see Model 3001 Solinst Levellogger 5 App Interface data sheets).



## LevelSender 5 Telemetry System

Instantly add cellular telemetry to your Levellogger 5 LTC by connecting to a Model 9500 LevelSender 5. Send data by email or SMS from your remote stations to your desired location. The LevelSender 5 simplifies your telemetry setup, by working with Solinst direct read cables and is compatible with the full Levellogger Series product line (see Model 9500 LevelSender 5 data sheet).



## SolSat 5 Satellite Telemetry

SolSat 5 Satellite Telemetry uses Iridium satellite technology to provide global connectivity for your remote water monitoring projects. The SolSat 5 is simple to set up with the Solinst Levellogger 5 LTC using an intuitive and secure Wi-Fi App on your smart device. The SolSat 5 features a built-in barometer, solar panel and a compact weatherproof enclosure for deployment almost anywhere.

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