

NEW SERIES 4a WATER QUALITY INSTRUMENTS FROM HYDROLAB

FOR WORRY-FREE WATER QUALITY DATA 

Temperature • pH • ORP • Dissolved Oxygen • Conductivity • Depth • Turbidity • Chlorophyll • Total Dissolved Gas • Nutrients • LICOR® Ambient Light • Transmissivity

- Fresh water, sea water, or polluted water
- Remote or attended monitoring
- Surface or ground water
- Superior sensor technology

Precisely engineered for durability and maximum performance, the **DataSonde 4a** and **MiniSonde 4a** transmit or automatically log water quality parameters. New field-replaceable sensors complement an easy-to-use, flexible water quality monitoring system. The **Surveyor 4a** provides data display and logging.

DataSonde 4a

- Seven built-in expansion ports
- Designed for in situ and flow-through applications

MiniSonde 4a

- Four built-in expansion ports
- 1.75" diameter housing is ideal for ground water monitoring, portability, and limited space environments

Surveyor 4a

- Rugged, waterproof (NEMA 6) case with handstrap
- Downloads directly to a PC (no proprietary software required)
- Optional GPS and Barometric Pressure



PUT IT TO THE TEST.

SUPERIOR SENSOR TECHNOLOGY



The DataSonde 4a and MiniSonde 4a feature proven, field-replaceable sensors engineered for durability, easy maintenance and calibration. Hydrolab products have delivered reliable water quality data for over 30 years.

Hydrolab products feature the best sensors available for water quality applications.

- Dissolved Oxygen: two-year warranty; easily-maintained, field-proven Clark cell
- pH: two-year warranty; reference electrode rebuildable in seconds
- Conductivity: non-corroding graphite electrodes in a free-flowing, easily-maintained cell
- Turbidity: new shutter design (pat. pending) opens only for measurements - no need to wipe the optical surfaces
- Sample Circulator: provides fast, repeatable DO measurements and minimizes membrane fouling; provides water flow for a more representative sample ensuring more reliable measurements for all sensors.

CALL US TODAY
800.949.3766
www.hydrolab.com

DataSonde, MiniSonde, and Surveyor are trademarks or registered trademarks of Hydrolab Corporation.

TYPICAL PERFORMANCE SPECIFICATIONS

	Range	Accuracy	Resolution
Temperature	-5 to 50 °C	± 0.10 °C	0.01 °C
Specific Conductance	0 to 100 mS/cm	± 1% of reading ± 0.001 mS/cm	4 digits
pH	0 to 14 units	± 0.2 units	0.01 units
Dissolved Oxygen	0 to 20 mg/l	± 0.2 mg/l	.01 mg/l
ORP	-999 to 999 mV	± 20 mV	1 mV
Vented Level / 0 - 10 m	0 to 10 m	± 0.03 m	0.001 m
Depth / 0 - 25 m	0 to 25 m	± 0.08 m	0.01 m
Depth / 0 - 100 m	0 to 100 m	± 0.3 m	0.1 m
Depth / 0 - 200 m	0 to 200 m	± 0.6 m	0.1 m
Salinity	0 to 70 ppt	± 0.2 ppt	0.01 ppt
Turbidity (Shuttered)	0 to 100 or 0 to 1000 NTU	± 2.6% of range	0.1 or 1 NTU
Turbidity	0 to 100 or 0 to 1000 NTU	± 5% of range	0.1 or 1 NTU
Ammonium / Ammonia	0 to 100 mg/l-N	greater of ± 5% of reading or ± 2 mg/l-N (typical)	0.01 mg/l-N
Nitrate	0 to 100 mg/l-N	greater of ± 5% of reading or ± 2 mg/l-N (typical)	0.01 mg/l-N
Chloride	0.5 to 18,000 mg/l	greater of ± 5% of reading or ± 2 mg/l (typical)	4 digits
Total Dissolved Gas	400 to 1300 mmHg	± 0.1% of span (max. immersion depth: 30 m)	0.1 mmHg
Transmissivity	0-100%	0.2%	0.1%
Ambient Light	0 to 10,000 $\mu\text{mol s}^{-1} \text{m}^{-2}$	± 5% of reading or ± 1 $\mu\text{mol s}^{-1} \text{m}^{-2}$	1 $\mu\text{mol s}^{-1} \text{m}^{-2}$
Chlorophyll	0.03 to 75 $\mu\text{g/l}$	± 3.5 $\mu\text{g/l}$	0.01 $\mu\text{g/l}$
Barometric Pressure	500 to 850 mmHg	± 10 mmHg	0.1 mmHg
Global Positioning System		25 m CEP (50%) without SA DGPS - 2 m CEP (50%)	

INSTRUMENT SPECIFICATIONS

Computer Interface: RS-232, RS-485, RS-422, SDI-12

Memory: DataSonde 4a - 120,000 measurements
 MiniSonde 4a - 120,000
 Surveyor 4a - 375,000

Battery Supply: DataSonde 4a: 8 "C" batteries
 MiniSonde 4a: 4 or 8 "AA" batteries
 Surveyor 4a: Rechargeable Nickel Metal Hydride

Typical Battery Life: DataSonde 4a: 62 - 86 days
 MiniSonde 4a: internal battery pack: 9 - 13 days, extended battery pack: 22 - 31 days
 Surveyor 4a: 12 - 16 hours

Operating Temperature: -5 °C to 50 °C

Maximum Depth: DataSonde 4a, MiniSonde 4a - 225 m

Size: DataSonde 4a: Outer Diameter - 3.5" / 8.9 cm, Length - 23" / 58.4 cm Weight - 7.4 lbs / 3.35 kg
 MiniSonde 4a: Outer Diameter - 1.75" / 4.4 cm, Length 21" / 53.3 cm Weight 2.2 lbs / 1.0 kg
 with battery pack 24.5" / 62.2 cm Weight 2.5 lbs / 1.1 kg
 with extended battery pack 29.5" / 74.9 cm Weight 2.9 lbs / 1.3 kg
 Surveyor 4a: 11" X 4" X 1.5" (27.9 cm X 10.2 cm X 3.8 cm), Weight: 2 lbs / 0.9 kg

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PUT IT TO THE TEST.