iLab

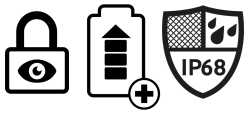
Rugged Multi-Parameter Analyser

iLab multi-parameter analyser suitable for long-term monitoring of up to 7 parameters simultaneously, including: Temperature, Depth, pH, ORP, Conductivity & Salinity & TDS, Turbidity, DO, Chlorophyll, Blue-green algae, Ammonia nitrogen, Nitrate nitrogen, Chloride ions, and Fluoride ions.

Built-in GPS receiver and USB interface; with optional bluetooth function delivers unparalleled functionality. Designed for ease of use with an easy to hold ergonomic curve, and high impact rubber gaskets and IP68 rating makes the iLab the most suitable field partner on the market.

Features:

- IP68 high impact environmental enclosure.
- LCD real time screen as standard.
- Fast onboard processing power.
- Configurable sampling intervals to optimise operating. duration and reduce the overall power consumption.
- Self-cleaning system allows iLab to obtain accurate data for longer.
- Store over 100,000 data points on the device.



Applications:

- Multi-Parameter water quality online monitoring of rivers, lakes and reservoirs.
- Water quality monitoring of drinking water source, ground water and sea water.
- Environmental Monitoring.
- Agricultural.

EDS Environmental Data Services

Environmental Data Services
Ph: 1300 721 683
Web: www.e-d-s.com.au

Head Office:
12/17 Indy Crt Carrara
Queenland, Australia, 4211

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Specifications:

Communicator Physical Indicators

Display	3.5-inch color display screen with adjustable backlight
Data storage	More than 100,000 data
Material	ABS+PC
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Protection level	IP67
Operating & Storage temperature	0~50℃（Non-freezing）,-15~60℃
Size&Weight	203*100*43mm,0.5KG

Standard Electrode Parameters

pH Sensor :	
Principle	Glass electrode method
Range	0-14 pH（With ion electrode:5~ 10 pH）
Resolution	0.01 pH
Accuracy	±0.1 pH

Temperature :	
Principle	Thermistor method
Range	0℃~60℃（Mainframe's work temp. 0~40℃）
Resolution	0.01℃
Accuracy	±0.5℃

Conductivity sensor :	
Principle	A pair of platinum gauze electrode
Range	1us/cm-2000 us/cm（K=1） 100us/cm-100ms/cm（K=10.0）
Resolution	0.1us/cm~0.01ms/cm（Depending on the range)
Accuracy	±3%

ORP Sensor :	
Principle	Glass electrode method
Range	-1000mV ~+1000mV
Resolution	1mV
Accuracy	±5mV

DO sensor :	
Principle	Fluorescence
Range	0 -20 mg/L；0-20 ppm；0-200%
Resolution	0.1%/0.01mg/l
Accuracy	±3% or ±0.3 mg/L, whichever is greater

Turbidity sensor:	
Principle	Light scattering method
Range	0-1000NTU
Resolution	0.1NTU
Accuracy	± 5% or 0.3NTU, whichever is greater

Chlorophyll sensor :	
Principle	Fluorescence
Range	0-500 ug/L
Resolution	0.01 ug/L~0.1 ug/L, Depending on range
Accuracy	±5% of the signal level corresponding value of 1ppb Rhodamine B Dye

Blue-green algae sensor :	
Principle	Fluorescence
Range	200-300,000cells/mL
Resolution	20cells/mL
Accuracy	±10% of the signal level corresponding value of 1ppb Rhodamine B Dye

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Specifications:

Ammonia Sensor :	
Principle	Ion selection
Range	0.1~1000mg/L-N
Resolution	0.01mg/L-N
Accuracy	±5% or ±0.2mg/L

Nitrate Sensor :	
Principle	Ion selection
Range	0.5~1000mg/L-N
Resolution	0.01mg/L-N
Accuracy	±10% or ±0.2mg/L

Chloride Sensor :	
Principle	Ion selection
Range	3~1000mg/L
Resolution	0.01mg/L
Accuracy	±10% or ±0.2mg/L

Fluoride Sensor :	
Principle	Ion selection
Range	0.5~1000mg/L
Resolution	0.01mg/L
Accuracy	±10% or ±0.2mg/L

Depth (Pressure) :	
Principle	Pressure-sensitive Method
Range	0-61m(Maximum withstand pressure depth:30M）
Resolution	2cm
Accuracy	±0.3%

Sensor Housing Specifications:

Power Supply	9-36VDC	**Measuring Temperature**	0~40℃（non-freezing）
Power Dissipation	3W	**Storage Temperature**	0~50℃（non-freezing）
Communication protocol	MODBUS RS485	**Protection Class**	IP68
Size	Diameter 90*Length 640.5mm	**Weight**	3KG
Maximum withstand pressure depth	30M(With ion selective electro de: 10 m）	**Battery capacity**	8 sections, 8C, 3.6V lithium battery

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