

Celebrating 60 years
of our Journey



www.elico.co/60years



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ELICO[®]
An ISO 9001:2018 | 14001 | 27001 Certified Company

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ELICO[®]
Connecting Science & Lab



WATER
TESTING
SIMPLIFIED
FASTER

Automatic Multi Parametric
Analyzing Device

**AQUA
SENSE**





Applicable Industries



Drinking Water



Waste Water

3.4 million deaths every year is due to water borne diseases

Source: WHO

1.8 million deaths every year due to Diarrhoea

Source: UNICEF

780 million people do not have access to Clean Water

Source: UNESCO



illness to wellness

Acceptable limits for drinking water

pH 6.5-8.5	TDS 500 mg/L	Turbidity 5 NTU	Iron 0.3 mg/L	Hardness 200 mg/L	Alkalinity 200 mg/L	Nitrate 45 mg/L
Residual Chlorine 0.2 mg/L	Fluoride 1 mg/l	Ammonia 0.5 mg/L	Chloride 250 mg/L	Sulphate 200 mg/L	Calcium 75 mg/L	Nitrite 1 mg/L

* As per BIS

The testing can be done faster & easier.

Software Salient Features

1. The Software runs on Windows Operating system (Windows XP and above) with simple to use and Rich UI.
2. Automated workflow for Sample Analysis and Calibration without any manual intervention.
3. User Authentication and access privileges can be defined.
4. Status monitoring window for indicating the reagent/solutions levels and providing the necessary alerts for re-filing (ELICHECK).
5. User can define the working limits for each parameter to provide necessary alerts on the sample being analysed.
6. Programable parameters and calibration schedule.
7. Remote storage of sample data along with GPS location information via 3G/4G.
8. Custom Report generation and printing

Analyzers Salient Features

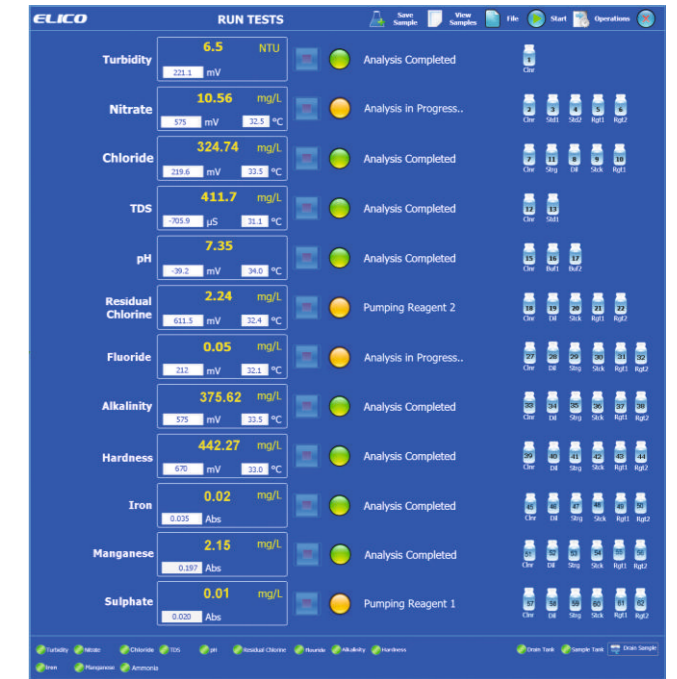
1. Automatic Cleaning, Calibration, Measurement and Drain.
2. Automatic transfer of sample into measurement cell.
3. Calibration using minimum of 2 Standards.
4. LED indications for easy identification of process status.
5. Self Checking diagnostics.
6. Ease of Maintenance.

Software Screens

Calibration Software Screen



Run Test Software Screen



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Analytical Equipment

14 Parameters

- 1 pH
- 2 Turbidity
- 3 Residual Chlorine
- 4 Sulphate
- 5 TDS
- 6 Alkalinity
- 7 Calcium
- 8 Chloride
- 9 Fluoride
- 10 Iron
- 11 Hardness
- 12 Nitrate (NO₃)
- 13 Ammonia
- 14 Nitrite (NO₂)



TURBIDITY ANALYZER

Range
0 to 1000 NTU

Reproducibility
± 2% of Range

Resolution
0.01

Measurement Technique
Nephelometry



ALKALINITY ANALYZER

Range
5 to 2,000 mg/L

Reproducibility
± 2% of Range

Resolution
0.01

Measurement Technique
Potentiometric Titration



CHLORIDE ANALYZER

Range
1.8 to 35,500 mg/L

Reproducibility
± 4% of Range

Resolution
0.01

Measurement Technique
ISE



FLUORIDE ANALYZER

Range
0.02 to Saturation

Reproducibility
± 2% of Range

Resolution
0.01

Measurement Technique
ISE



CALCIUM ANALYZER

Range
0.01 to 40,000 mg/L

Reproducibility
± 2% of Range

Resolution
0.01

Measurement Technique
ISE



RESIDUAL CHLORINE ANALYZER

Range
0.01 to 4 mg/L

Reproducibility
± 2% of Range

Resolution
0.01

Measurement Technique
Colorimetric



TDS ANALYZER

Range
0 to 50,000 mg/L

Reproducibility
± 2% of Range

Resolution
0.01

Measurement Technique
Conductivity (EC)



HARDNESS ANALYZER

Range
5 to 1,000 mg/L

Reproducibility
± 4% of Range

Resolution
0.01

Measurement Technique
Colorimetric Titration



IRON ANALYZER

Range
0.1 to 3 mg/L

Reproducibility
± 2% of Range

Resolution
0.01

Measurement Technique
Colorimetric



NITRITE ANALYZER

Range
0.01 to 0.5 mg/L

Reproducibility
± 2% of Range

Resolution
0.01

Measurement Technique
Colorimetric



NITRATE ANALYZER

Range
0.1 to 14,000 mg/L

Reproducibility
± 2% of Range

Resolution
0.01

Measurement Technique
ISE



pH ANALYZER

Range
0 to 14 pH

Reproducibility
± 0.02

Resolution
0.01

Measurement Technique
Potentiometric



AMMONIA ANALYZER

Range
0.01 to 17,000 mg/L

Reproducibility
± 2% of Range

Resolution
0.01

Measurement Technique
ISE



SULPHATE ANALYZER

Range
0 to 1,000 mg/L

Reproducibility
± 2% of Range

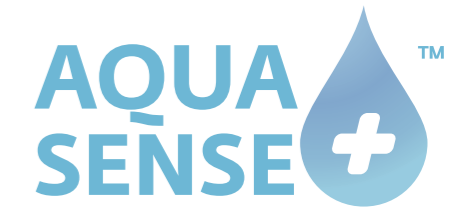
Resolution
0.01

Measurement Technique
Colorimetric

* Additional Parameters can be added as per requirements.

**Simpler.
Faster.
Precise.**

FEATURES OF



Faster Analysis < 8 mins

Fully Automated, the water sample & reagents are automatically pumped into multiple sensors and the analysis is done simultaneously for 12 parameters and completed in less than 8 Minutes.



Minimal Sample < 1.5 Litres

The system is designed with minimal sample in-take for sample analysis and cleaning, <1.5 litre for analysis of 12 parameters.



LOW Reagent Consumption

The Analytical Methods are optimised to perform the analysis using low volume of reagents.



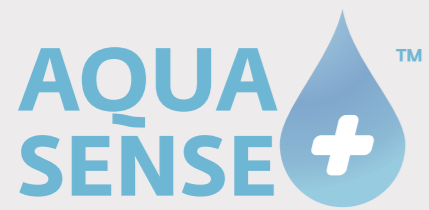
Remote Data Transfer 3G/4G

The system has in-built GPS facility for Location tracking, 3G/4G Facility for remote communication and transfer of data to centralised servers.



ReAgent Tracking ELICHECK™

The system has a in-built reagent tracking mechanism to alert the user on reagent / solutions stock levels to plan for re-fill (alerts are sent via e-mail or SMS).



Automated
Multi Parameter
Water Analyser



Remote Data Transfer

GPS, 3G/4G, Data Storage and Sharing

Input unit

Calibration Standards & Reagents

Printer

Portable dot matrix impact printer

Instrument Controller & Data Communication

LED Monitor

19" Screen to monitor the process

Analyzers

Water Sample Inlet

Drain Collector