

# Ensure the best water quality



## L800

### ONLINE MONITORING **WATER ANALYZER**

WIDE APPLICATION  
RANGES

 ACCURATE

MULTIPARAMETERS  
AVAILABLE

 FAST MEASUREMENT

**Hemera Analyzers**  
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# Ensure the best water quality

## FEATURES

- ✓ Powerful analytical method
- ✓ High reliability & robustness
- ✓ Customized to your requirements
- ✓ Quality after-sales service
- ✓ Wide application ranges
- ✓ Low maintenance
- ✓ Long life-time
- ✓ No interferences (Turbidity, Color, Salinity...)
- ✓ Highly selective
- ✓ Fast response time

### Mono or multi-parameter may be required

PARAMETERS	METHODS	RANGES	 ACCURACY	 DETECTION LIMIT	 RESPONSE TIME
AMMONIUM — $\text{NH}_4^+$	 UV Spectroscopy - Gas phase	0.1 ... 1000 mg/L*	From 0.1 % to 2 % of full scale	From 0.1 % to 2 % of full scale	From 10 s to 2 min
NITRATES — $\text{NO}_3^-$	 UV Spectroscopy	0.1 ... 100 mg/L*			
NITRITES — $\text{NO}_2^-$	 UV Spectroscopy	0.1 ... 10 mg/L*			
TOTAL NITROGEN — <b>TN</b>	 UV Spectroscopy	0.1 ... 100 mg/L*			
PHOSPHATES — $\text{PO}_4^{3-}$	Colorimetry	0.1 ... 10 mg/L*			
TOTAL PHOSPHATES — <b>TP</b>	Colorimetry	0.1 ... 10 mg/L*			
ORGANIC MATTER — <b>COD<sub>eq</sub></b>	UV Spectroscopy - Correlation	0.1 ... 10000 mg/L*			
TOTAL ORGANIC CARBON — <b>TOC</b>	IR Spectroscopy - Gas phase	0.1 ... 10000 mg/L*			
SULFIDES — $\text{S}_2^-$	UV Spectroscopy - Gas phase	0.1 ... 100 mg/L*			
SULFITES — $\text{SO}_3^{2-}$	UV Spectroscopy - Gas phase	0.1 ... 100 mg/L*			
TOTAL SULFUR — <b>TS</b>	UV Spectroscopy - Gas phase	0.1 ... 100 mg/L*			
TOTAL SUSPENDED SOLIDS — <b>TSS</b>	IR Nephelometry	0.1 ... 10000 mg/L*			
TURBIDITY — <b>Turb</b>	IR Nephelometry	0.1 ... 100 NTU*			
COLOR	Visible Spectroscopy	0.1 ... 1000 Pt-Co*			
CHLORINE — $\text{Cl}_2$	UV Spectroscopy - Gas phase	0.1 ... 10 mg/L*			
CHLORINE DIOXIDE — $\text{ClO}_2$	UV Spectroscopy - Gas phase	0.1 ... 10 mg/L*			
TOTAL CHLORINE — <b>TC</b>	UV Spectroscopy - Gas phase	0.1 ... 10 mg/L*			
HYDROCARBON (OIL) — <b>OIW</b>	UV Spectroscopy	0.1 ... 100 mg/L*			
AROMATIC COMPOUNDS — <b>BTEX</b>	UV Spectroscopy - Gas phase	0.1 ... 100 mg/L*			
PHENOL — $\text{C}_6\text{H}_5\text{OH}$	UV Spectroscopy - Gas phase	0.1 ... 100 mg/L*			
DISSOLVED OXYGEN — <b>DO</b>	Visible Fluorescence	0.1 ... 100 mg/L*			
CONDUCTIVITY — <b>EC</b>	Conductimetry (probe)	0.1 ... 1000 mS/cm*			
OZONE — $\text{O}_3$	UV Spectroscopy - Gas phase	0.1 ... 10 mg/L*			
pH — <b>H<sup>+</sup></b>	Potentiometry (probe)	0 ... 14*			

\*The parameter ranges are examples. Customized ranges on request.



















 = Patented




# Main applications



## Some examples of configurations

 <b>TN</b> <b>NH<sub>4</sub></b> <b>NO<sub>3</sub><sup>-</sup></b> <b>NO<sub>2</sub><sup>-</sup></b>	 <b>COD</b> <b>TSS</b> <b>Turb</b> <b>EC</b> <b>Color</b>	 <b>Cl<sub>2</sub></b>	 <b>S<sub>2</sub><sup>-</sup></b> or <b>H<sub>2</sub>S</b>	 <b>PO<sub>4</sub><sup>3-</sup></b>	 <b>OIL</b> <b>IN WATER</b>	 <b>PHENOL</b>
 <small>WASTEWATER</small>	 <small>WASTEWATER</small>	 <small>PROCESS WATER</small>	 <small>PROCESS WATER</small>	 <small>WASTEWATER</small>	 <small>WASTEWATER</small>	 <small>WASTEWATER</small>
 <small>SURFACE WATER</small>		 <small>DRINKING WATER</small>		 <small>SURFACE WATER</small>		
		 <small>POOL WATER</small>				

  
**Custom analyzer setups are available.**  
**Contact us to discuss your specific requirements.**

# Technical specifications

- **CONFIGURABLE SETTINGS**

Adjusting various settings according to the user's requirements (measurement cycles, units, and views)

- **VARIOUS DISPLAY**

Graph mode, Overview, and Measurement cycle

- **EXPORTING DATA**

Save data or make screenshots on SD card

- **REMOTE COMMUNICATION**

RS485 / Modbus RTU/TCP slave or master (Show value, calibration status, fault status...)



## ENCLOSURE

Type (Depend on parameter and configuration)

### L800-570



**SIZE**  
570x340x195 mm

**WEIGHT**  
± 20 kg

### L800-430



**SIZE**  
430x340x195 mm

**WEIGHT**  
± 15 kg

### C800 (controller)



**SIZE**  
340x340x79 mm

**WEIGHT**  
± 10 kg

Material

SS316L

Protection class

IP54 (IP65 in option)

Area classification

Safe

## SAMPLE CONDITION

Flow

0 ... 2 L/min (Only for L800 mmodels)

Pressure

< 2 bars (Only for L800 mmodels)

Temperature

5 ... 35°C (Only for L800 mmodels)

## CONTROLLER

Display

8.5" TFT colour screen 16/9 (LED backlight)

Resolution

800 x 480 px

Touch screen

Glass to glass

Memory

16 GB SD card

Data transfer

USB type A

Operating temperature

5 ... 45°C

Operating humidity

< 90 % RH

## COMMUNICATION OUTPUT

Analog

4-20 mA isolated (Active or Passive) / 500 Ω max

Relay

Programmable limit or fault alarms / 5A (NO) 3A (NC) @ 277 VAC

Digital

RS485 / Modbus (Slave or Master) - Show value, calibration status, fault status...

## POWER SUPPLY

Voltage

100 ... 240 VAC (50 - 60 Hz) or 24 VDC

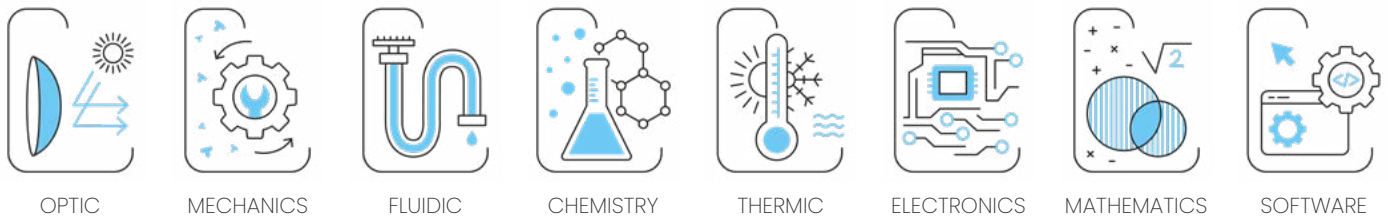
Consumption

< 20 W (60 W max.)

# We are able to offer a detailed analysis and a fitted and customized solution

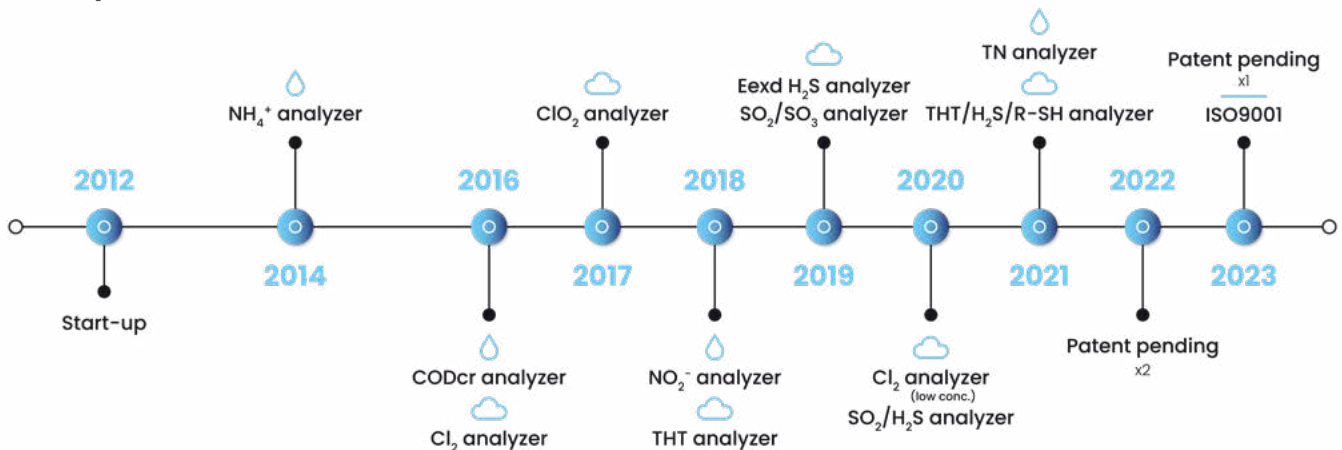
## Our skills

“ We attach particular importance in research and development. Our team of engineers works every time to offer you the best solution.



Our multiple skills allow us to have a precise view of any type of situation. We manufacture our own electronics as well as optical equipment such as spectrograph and UV lamps. We have also developed our own software integrated to our analyzer which allows us to have the measurement in real time.

## Our footprints



## They trust in us







hemera  
a n a l y z e r s

*Online liquid & gas  
analyzers*



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