



S²⁻

In the context of petrochemical refining and wastewater treatment, water containing S²⁻ is referred to as "sour." The sulfide loading lends an unpleasant odor and makes the water corrosive. Additionally, the presence of S²⁻ in certain water pipes can serve as an indicator of equipment problems, e.g. heat exchanger leaks. L800/ Naiade uses UV-Vis absorbance spectroscopy technology in gases phase, provides selective, accurate and real-time measurement of ion S²⁻ in water.

■ Benefits

High Selectivity

- . No cross interference with CO, CO₂ and H₂O
- . Low limit of detection
- . True multi-component measurement with no pH dependence
- . Display: H₂S, HS⁻, TS, pH

High Reliability

- . No corrosion due to dew point
- . Several streams can be monitored in same time

Simplicity

- . Collect of data easily
- . Short-time operation
- . Adding only acid HCL 10%
- . Integrated sampling pump
- . Integrated automatic cleaning system

Robustness

- . Can be install outside in corrosive or explosive area
- . No spare parts needed to be change

■ Features

Sampling

- . Multiplexing system in option
- . Heated or cooling system in option

Communication and interface

- . On board memory for storage data (16 GB)
- . Intuitive friendly interface on TFT color touch screen (glass to glass)

Enclosure

- . IP65 Stainless Steel enclosure
- . ATEX in option

Maintenance

- . 10-year lifetime UV lamp
- . Once a year calibration

■ Application

- . Wastewater monitoring
- . Petrochemical refining

Technical Specification

Sensor

Range	0 ... 10 mg/l or 0 ... 100 mg/l
Accuracy	< ±2 % FS
Repeatability	± 0.1 mg/l
Detection limit	< 0.3 mg/l
Response time	< 10 sec

Sample Condition

Flow	0 ... 2 l/min
Pressure	< 2 bars
Temperature	0 to 50°C - up to 190°C in option
Volume	< 100 cm ³
Wetted parts	Quartz or Sapphire / FPM / Stainless steel / PEEK

Controller

Display	8.5" TFT colour screen 16/9 (LED backlight)
Resolution	800 x 480 pixels
Touch screen	Glass to glass
Memory	16 GB SD card
Data transfer	USB Type A
Operating temperature	5 ...50 °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)

Power supply

Voltage	100 ... 240 VAC (50 - 60 Hz) or 24 VDC
Consumption	< 20 W (60 W max.)

Enclosure

Type	Wall mouted
Material	SS 316L
Dimensions	430 x 340 x 200 mm (H x W x D)
Weight	< 14 kg
Protection class	IP65
Area classification	Safe / ATEX Zone 1 or 2 in option

Certification

EMC	ICE 61326
Safety	ICE 61010-1