

# Effluent Monitoring





## CM44x Transmitter

- Up to 8 Memosens sensors
- Hot plug-and-play design
- Modular, flexible and expandable design
- Simplified commissioning, calibrations and maintenance
- Digital protocols – HART, PROFIBUS, Modbus, Ethernet IP
- Built-in web server
- On-board data logging
- Optional automatic sensor cleaning, built-in PID controllers x 2 and full diagnostics
- Simple data transfer using SD card



## CUS51D – Turbidity

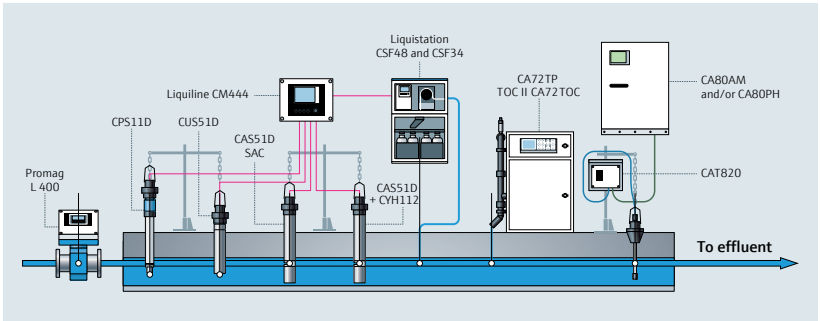
- Pre-calibrated and pre-configured from the factory
- Robust design with air cleaning capability
- 90°, 135°, or 4-beam design in one sensor
- Memosens technology

## CAS51D UV Nitrate

- Optical measurement, for fast response
- No reagents, reduced operation costs
- Optional air cleaning, minimizing manual intervention
- Fast response, real-time monitoring



# Effluent Monitoring



At Endress+Hauser we understand the demand of tightening effluent requirements on industries and municipal waste treatment plants. As regulations and charges become more stringent it is essential to monitor all effluent parameters in real time (where possible) and collect true representative samples for confirmation using lab testing.

With a complete line of effluent monitoring tools the Liquiline platform gets the job done. This platform includes the legendary CM44x analyzer with Memosens sensors (pH, turbidity, SAC organics, DO), the versatile CSF48 and CSF34 monitoring stations and the new revolutionary CA80 colourimetric analyzer. Add flow and you have a complete monitoring solution to meet your effluent requirements. Avoid violations and penalties.



## CSF34/CSF48 Monitoring Stations

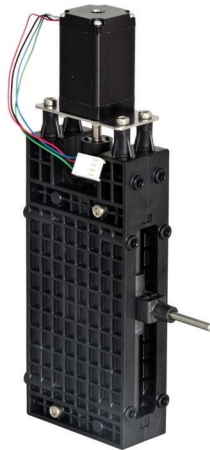
- Liquiline platform design: add up to 4 Memosens analytical sensors
- Vacuum sampling: sample repeatability, no sample breakdown
- Peristaltic sampling: variable sample volume
- Pressure pipe sampling: maximum flexibility
- Scheduled and event sampling: programmability in one machine
- 17 different bottle configurations (composite or discrete)
- Web server and digital communication protocols (including Ethernet I/P)
- Flexibility with simple system integration



Vacuum

Peristaltic

Pressure Pipe



## CA80PH/AM Liquiline Analyzer

- Colourimetric analyzer
- Same Liquiline platform design, add up to 4 Memosens analytical sensors for additional measurements
- New linear drive injectors reduce reagent use saving money and increasing analyzer reliability. Advanced multi-spectral photometer and miniature cuvette for shorter analysis time
- Dedicated Memosens controlled sample prep systems for all applications



Ammonium

Phosphorous

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