

# TP analyzer

## Liquiline System CA80TP

Total phosphorus analyzer for environmental monitoring, industrial and municipal wastewater



More information and current pricing:

[www.ch.endress.com/CA80TP](http://www.ch.endress.com/CA80TP)

### Benefits:

- Molybdenum blue method according to EN ISO 6878:2004 guarantees direct comparability to laboratory results
- Meeting industry needs: The analyzer is perfectly suited for environmental monitoring, industrial and municipal wastewater
- Fast and easy process integration: Direct installation of self-priming version or y-strainer for bypass applications
- Safety on the highest level: Software-controlled safety cover for the reactor and all heated parts. Additional safety light barrier prevents overdosing of reagents and sample.
- Combination of reliable sample delivery and high-precision dosing: Peristaltic pumps are able to cope with particles in the sample. Light barriers enable precise, reproducible dosing.
- Enhanced reagent lifetime thanks to optional cooling module
- Easy upgrade of functionality to a complete measuring station - simply by adding modules and connecting Memosens sensors.

### Specs at a glance

- **Measurement range** 0 to 2 mg/l 0.05 to 10 mg/l 0.5 to 50 mg/l
- **Process temperature** 4 to 40 °C (39.2 to 104 °F)
- **Process pressure** At atmospheric pressure, < 0.2 bar

**Field of application:** Phosphorus is the decisive factor for excessive algae and plant growth in water bodies, that's why continuous monitoring of this parameter is essential. The Liquiline System TP analyzer offers precise online measurement of total phosphorus and ensures highest process safety. Automatic calibration and cleaning save you operating

costs while advanced diagnostics with remote access support you in providing process documentation to the authorities.

## Features and specifications

### Analyser

**Measuring principle**

Colorimetric

**Characteristic**

Analyzer for total phosphorus

**Size**

Housing (open version):

793 x 530 x 417 mm

31.22 x 20.87 x 16.42 in

Housing (closed version):

793 x 530 x 463 mm

31.22 x 20.87 x 18.23 in

Housing with base:

1723 x 530 x 463 mm

67.83 x 20.87 x 18.23 in

**Design**

Open design, cabinet and stand housing

High-Performance plastic ASA-PC, additional stand coated steel

**Process temperature**

4 to 40 °C (39.2 to 104 °F)

**Ambient temperature**

5 to 40 °C (41 to 104 °F)

Outdoor version: - 20 to 40 °C (-4 to 104 °F)

**Process pressure**

At atmospheric pressure, < 0.2 bar

**Sample flow rate**

Min. 30 ml/min

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## Analyser

### Consistency of the sample

Low solid content (TS<50 mg/l), homogeneous

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### Specials

Easy upgrade to measuring station with up to four digital Memosens sensors

Automatic calibration and cleaning

User-configurable measuring, cleaning and calibration intervals

Self-priming analyzer with optical dosing unit I

Dilution module (optional)

Digital communication for remote access

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### Application

Monitoring and optimization of the cleaning capacity of municipal and industrial wastewater treatment plants

Monitoring of the wastewater treatment plant outlet for documentation purposes

Monitoring and optimization of activated sludge basins

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### Power supply

100 to 120 VAC / 200 to 240 VAC  $\pm$  10%

24 VDC  $\pm$  10%

50  $\pm$  1 or 60  $\pm$  1,2 Hz

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### Output / communication

2x 0/4 to 20 mA

Webserver, Modbus, Ethernet/IP, Profibus DP

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### Input

1 measuring channel

1 to 4 digitale sensor inputs for sensors with Memosens protocol (optional)

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### Measurement range

0 to 2 mg/l

0.05 to 10 mg/l

0.5 to 50 mg/l

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## Analyser

### Consumables

Reagents and standard solutions CY80TP are necessary for the operation

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