

Turbimax CUS31



Benefits:

- Measurement under pressure to avoid degassing
- Inclined plain sensor surface uses medium flow to increase the self-cleaning effect and repels air bubbles
- Self-monitoring and plausibility check
- Scratch-resistant sapphire glass measuring window
- Factory calibration ("plug and play")

Specs at a glance

- **Measurement range** 0,000 - 9999 FNU 0,00 - 3000 ppm 0,0 - 3,0 g/L 0,0 - 200,0%
- **Process temperature** max. 50°C 122°F
- **Process pressure** max. 6bar 87psi

More information and current pricing:

www.cz.endress.com/CUS31

Field of application: Turbimax CUS31 is an installation and immersion sensor for drinking water and industrial water according to the 90° scattered light method.

Features and specifications

Turbidity

Measuring principle

Application

Drinking water, industrial water

Installation

In immersion assembly, pipe installation or in a flow through holder with or without bubble trap.

Characteristic

optical sensor for turbidity measurement according DIN ISO 7027. Precalibrated in a flow through holder with or without bubble trap.

Turbidity

Measurement range

0,000 - 9999FNU
0,00 - 3000 ppm
0,0 - 3,0 g/L
0,0 - 200,0%

Measuring principle

Optical sensor according 90° scattered light in the near infrared light (880nm) according DIN EN ISO 7027

Design

Infrared diodes with two receiver for low and high range values as well as a reference diode. Chamfered measuring head to optimize the self cleaning and optional with wipper cleaning to replace microbubbles from the optical windows.

Material

Sensor shaft : PVC / PPS GF40
Optical window : sapphire
Cable : TPEO

Dimension

Diameter : 40mm
1.56 inch
Length : 191mm
7.44 inch

Process temperature

max. 50°C
122°F

Process pressure

max. 6bar
87psi

Temperature sensor

Integrated NTC temperature sensor

Connection

Fixed cable connection

Ingres protection

IP68

Turbidity

Additional certifications

Calibration certification

More information www.cz.endress.com/CUS31