Performance characteristics

Maximum measured error

Turbidity	< 2% of the measured value or 0.1 FNU (the respectively larger value is valid)
Solids	$<\!5$ % of the measured value or 1 % of full scale (the respectively larger value is valid); valid for sensors in the calibrated measuring range

Wavelength

 $860 \pm 30 \text{ nm}$

Factory calibration

FNU, FTU and solids concentration according to the application table Standard: 3 points

Applications

The sensor is factory calibrated in the application "formazine" and hereof derived for "kaolin filterable solids)". Further precalibrated applications are optimized for the corresponding medium.

The calibration can be performed up to 5 points.

Application	Recommended working ranges	CUS51D-	
		C1	D1
Factory calibration formazine	0 to 4000 FNU	Х	Х
Factory calibration kaolin	0 to 4 g/1	Х	Х
Application SiO ₂	5 to 100 g/1		Х
Application titanium dioxide	0.2 to 150 g/l		Х
Application activated sludge	0.5 to 15 g/l		Х
Model return sludge	3 to 50 g/1		Х
Application digested sludge / ooze	5 to 100 g/1 / 300 g/1		Х

Note!

For solids the achievable measuring ranges are depending of the actual medium and can deviate from the recommended operating ranges. In this case a 3-point-calibration is recommended.

Drift

Thanks to electronic control the sensor works drift compensated in a wide range.

Limit of detection

Application	Measuring range	Limit of detection
Formazine	0 to 50 FNU	0.006 FNU
romazme	0 to 9999 FNU	0.4 FNU
Kaolin	0 to 4000 mg/1	0.85 mg/l

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