



High-precision process turbidity probe according to DIN EN ISO 7027

SOLITAX t-line sc Turbidity immersion probe 0.001-4000FNU, w/wiper, PVC

Order number: LXV423.99.10000

High-precision process probe for the 90° turbidity measurement according to DIN EN ISO 7027. Time-consuming multipoint calibration with dilution series are replaced by a single correction factor.

- **No calibration**
- **Proven cleaning system**
- **Combinable with probes for O₂, NO₃, pH, etc.**

90° turbidity measurement according to DIN EN ISO 7027. The backscatter photoreceptor measures suspended solids accurately in accordance with DIN 37414. A single correction factor replaces time-consuming multipoint calibrations with dilution series.

Technical Specifications

Operating Temperature Range	0 to 40 °C
Accuracy	Turbidity up to 1000 NTU: without calibration < 5% of the measured value ±0.01 NTU with calibration < 1% of the measured value ±0.01 NTU
Cable Length	10 m (optional extension cables available)
Calibration method	Turbidity: Formazin or STABLCAL Standard (at 800 NTU). Suspended Solids: Sample specific, based on gravimetric TSS analysis with a correction factor procedure.
Diameter	60 mm
Flow	Max. 3 m/s (the presence of air bubbles affects the measurement)
Maintenance interval	1 h/month
Material	Optics Carrier and Sleeve: PVC black; Wiper Arm: stainless steel 1.4581; Wiper Rubber: silicone rubber (standard) Optional: Viton (LZX578); Wiper Shaft: stainless steel 1.4571
Max. cable length Sensor-to-Controller	100 m

Measuring principle	Infrared Duo scattered light technique for color-independent turbidity measurement Turbidity in accordance with DIN EN 27027 / TS equivalent DIN 38414
Measuring range turbidity	0.001 to 4000 FNU
Pressure range	5 bar
Repeatability (2)	turbidity: < 1 %
Response time	1 to 300 s adjustable