

TURB701/SI- SUMMERGED TURBIDITY CELL

TURB701/SI cell is a turbidity sensor by immersion stand up mounting. Suitable for tanks and small, large vessels or channels. The measuring system based on nephelometric principle, with detection of the light beam at 90° from the source side. The cell immersion in PVC construction is available in various lengths options and can be provided joined to mounting flange.

Applications:

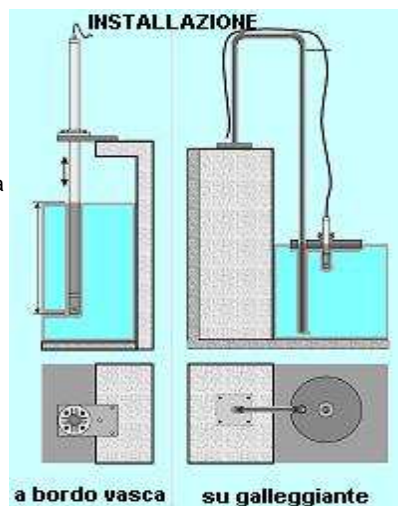
- Water Supply
- Wastewater
- Sedimentation sludge monitoring



DESCRIPTION

Optical unit adaptes to light focused (light scattering), by an emitter source, in one beam which passes through the liquid sample forward to the photodetector to pick up the deflected light at 90° side by, due to solid particles on suspension. This method called "Nephelometric" is referred to NTU measuring unit (Nephelometric Turbidity Units).

TURB701/SI is powered by a highly stabilized voltage to the light source to ensure a constant intensity even with variations in the mains supply up to 15%. High brightness light emitter semiconductor with a wavelength peak of 594 nm that guarantees its intensity constant for several years. Cadmium sulphide (CdS) photodetector of large surface is encapsulated in a stainless steel casing and hermetically sealed under vacuum. Peak response at a wavelength of 580-600 nm. Only the detector is in direct contact with the process fluid. The probe can be equipped with the optional cleaning system by chemical washing supplied from metering dosing pump Mod TURBSI / CH -AP. Probe ending is equipped with a cable gland PG 9 and the cable on request up to 10 meters length.



TECHNICAL SPECIFICATIONS

Detector	cadmium sulfide in steel casing vacuum
Emitter:	Semiconductor AlIN Gap, high luminous steady intensity
Measuring system:	nephelometric single-beam
Measurement range:	0 ... 2 / 2000 NTU
Detector supply:	50 mV/pp. (internal)
Emitter supply:	1,9 Vdc (internal)
Maximum distance cell /instrument:	50 meters
Immersion depth:	10...2000 mm, based on the length sensor
Direction of flow:	in all directions, free of bubbles sourcing
Mounting:	upright
Optional mounting flange:	ISO/DIN DN32
Max working temperature:	50°C
Range storage temperature:	-30...+50 °C
Body:	PVC
Gasket:	NBR (VITON on request)
Protection:	IP66
Dimensions:	diameter 42, Length 600, 800, 1000, 1500, 2000 mm, others on request
Weight:	according to supply requested



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