

TURB701/D - OVERFLOW TURBIDITY CELL

TURB701/D is used for turbidity measurements to outflow, using the nephelometric principle, able to read the light beam emitted, at 90° to the source side. The shape and easy to installation with reliable accuracy.

Applications:

- Water Supply
- Swimming pools
- Plant Food
- Wastewater
- Chemical processes
- Monitoring of sedimentation



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 particels on suspension. This method called "Nephelometric" is referred to NTU measuring unit (Nephelometric Turbidity Units).

The device is equipped with one deaeration chamber (TURB701/DEG) to avoid noise and wrong measures due to air bubbles mixed into the liquid sampled.

The measurement TURB701/D is assembled by one overflow volume into PVC pan. The cell consists of a room in outflow-tight, where is placed the detector photocell with a wavelength of 500 nm, like as the emitter photocell. The instrument designed to feed and to detect the signal of the cell is readed by microprocessore digital display meter, with self calibration and configurable functions. (model REGMPR / T).

TECHNICAL SPECIFICATIONS

Body:	black PVC
Detector:	photoconductive cell λ 520 nm
Emitter:	solid state beam focused λ 594 nm
Supply:	24 Vac
Protection:	IP55
Current output:	0-4/20 mA, isolated
Working temperature:	5...50 °C
Storage temperature:	-30...+50 °C
Detector supply:	50 mV/pp. (internal)
Emitter supply:	1,9 Vcc (internal)
Measuring system:	nephelometric single-beam
Measurement range:	0 ... 2 / 2000 NTU
Maximum distance cell /instrument:	50 meters
Process connection:	1/2 " Gas Female
Flow velocity:	< 0,5 liter/min.
Working pressure:	environment
Response Time:	20" in function of the flow
Mounting:	Wall bracket in die-cast aluminum
Dimensions:	H 355 mm. L 190 mm diam. 132 mm
Weight:	3 kg with bracket



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