



TU/TSS 3000CS/CSE is an on-line Turbidimeter/TSS monitor, designed to work in difficult water applications, waste water and process applications containing high concentrations of solids and where auto cleaning is needed.

The Neophelometric sensor can be Infra-red based or white light and meets the ISO-9027/EPA standards for turbidity measurements in the range of 0-4000 NTU and 0-10,000 mg/L as TSS with auto-ranging capability.

The sensor has a special measurement system that will not only measure the turbidity or TSS as well as detecting any dirt on the sensor surface and compensate the reading. When the sensor becomes very dirty, a sensor alarm will be activated and the message "clean sensor" will appear on the display.

The sensor is installed in a flow cell with a 1/2" inlet and outlet, flushing valve for emptying the flow cell during the automatic wash of the sensor and includes flow adjustment and air bubbles elimination.

During the autoclean of the sensor with air, the flushing valve is open and empties the remaining water and solids.

The controller has 3 control/alarm outputs, sensor error output and auto clean output (all dry contacts).

The isolated 4-20 mA output can be read by a data logger or computer based systems.

Calibration can be made either by comparing the reading with a portable instrument or directly with Formazin solution inside the sample cell. The zero calibration is being preformed automatically by the controller, right before each measurement is being taken (3 readings per second).

The analyzer is provided with an IP-65 enclosure and a transparent door. The controller allows key board lock done in the software.





PARAMETER RANGE/UNITS/DESCRIPTION

CONTROLLER

Units/Range	0-4000 NTU, 0-10,000 mg/l (Sio2)
Resolution	0.05% of scale
Accuracy	+/-2% of the reading (0-40 NTU) +/-5% of the reading (40-400 NTU) +/-10% of the reading (400-4000 NTU)
Power supply	110/220 +/- 10%, 50/60 HZ
Inputs	Neophelomtric turbidity/TSS sensor
Outputs	4-SPDT, 5A, dry contact (High/low alarm, sensor alarm and auto clean activation)
Analog output	Isolated 4-20 Ma
Display	LCD, 1x16
Enclosure	IP-65, 25x25x20cm
Plate mounting	60x40cm, PVC

TU320 & TU321 SENSORS

Body	Delrin
Optical window	Acrylic
Cable connector	7 pin, IP67
Temp. range (sample & ambient)	0-50°C
Pressure	0-6 bar
Response time	10 sec.
Light source	IR 890 (TU320) White light (TU321) (tungsten)
Measuring method	Neophelometric
Autoclean	dry air, 1.5 bar



TU420 FLOW CELL

Body	Delrin
Temp. range	0-50°C
Pressure	6 bar max.
Flow	Adjustable, 0.2-25 L/h
Inlet/Outlet	1/2"x1/2"
Dimensions:	40x20x20 cm



Ordering Information:

- TU-3000CS – Turbidity Controller + autoclean flow cell and sensor, IR
- TU-3000CSE – Turbidity Controller + autoclean flow cell and sensor, White light