



HEFER SYSTEMS & CONTROLS LTD.

- **WATER & WASTE WATER TECHNOLOGIES**
- **PROCESS ANALYTICAL EQUIPMENT**

TU/TSS 3000C On-line Turbidity/TSS monitor

TU/TSS 3000C is an on-line Turbidimeter/TSS monitor, designed to work in drinking water, waste water and process applications.

The Neophelometric sensor is Infra-red based and meets the ISO-9027 standard 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 but also discover 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. Automatic cleaning system can be provided upon request.

The sensor can work in a flow cell or submersible.

The controller has 2 control/alarm outputs, sensor error output and auto clean output (all dry contacts).

The isolated 4-20 mA output can be sent to any data logging or computer based systems.

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

A submersible sensor can be ordered instead of the flow cell by adding the letter "S" after the P.N.

The analyzer is provided with an IP-65 enclosure with a clear door. The controller has the option for key board lock.



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Technical Specifications:

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	TU-810 - Neophelometric 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, 16X14X16
TU310 SENSOR	
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 nm
Measuring method	Neophelometric, (ISO-7027, EN-27027)
TU320 SUBMERSIBLE	
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 nm
Measuring method	Neophelometric
	
EXTENSION PIPE UPON REQUEST	
TU410 FLOW CELL	
Body	Derlin
Temp. range	0-50°C
Pressure	6 bar max.
Flow	adjustable, 0.2-25 L/MIN
Inlet/Outlet	6mm/6mm

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