



**HEFER SYSTEMS & CONTROLS LTD.**

- Water & Waste Water treatment Tech.
- Process Analytical Equipment

**TU/TSS 3000S On-line Turbidity/TSS monitor**

**TU/TSS 3000S** is an on-line Turbidimeter/TSS monitor, designed for use together with our submerged sensor in water tanks and waste water treatment plants.

The Nephelometric 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 combines a unique measurement system that will not only measure the turbidity or TSS but will also detect 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 equipped with an auto-clean system using air bubbles for the cleaning process. The controller will activate the auto clean system according to the operator/process needs. the sequence is done in the software and provides holding of the analog output during the cleaning.

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

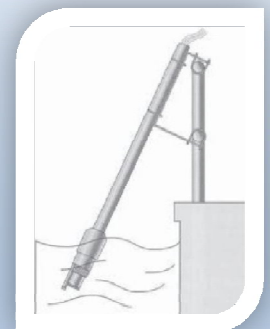
The isolated 4-20 mA output can be read by data logger or computer based systems.

Calibration can be made either by comparing the reading with a portable instrument. 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
<b>CONTROLLER</b>	
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	Nephelometric 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
<b>TU320 SUBMERSIBLE</b>	
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	Nephelometric



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