

Turbidity Controller, Turbidity Sensor, Flow Cell

**TU 7685
TU 810
TU 910**

TU 7685 Controller

- Input from preamplified sensor
- Manual and automatic operation
- Selectable scales
 - 0-4.000 0-40.00 0-400.0 0-4000 NTU
 - 0-10.0 0-100.0 0-1000 0-10,000 mg/l of SiO₂
- Autoranging
- Software filter
- Alphanumeric backlighted display
- 0-20 or 4-20 selectable output, programmable on the input scale
- 2 set point with min/max function, hysteresis and adjustable delay.
- Alarm:
 - Min/max turbidity
 - Set point timing,
 - Dirty lens
 - Empty cell
 - External light too high
- Autoclean relay with programmable cycle repetition, cleaning and holding time.
- Signal check for dirty lens
- 3 access levels:
 - Display
 - Calibration
 - Configuration of process parameters
- 110/220 VAC with overload power protection
- Dimensions: 96 x 96 x 155 mm DIN 43700
- Panel mounting

This instrument maintains the advantages of the 7685 microprocessor series. It is designed to operate together with TU810 amplified turbidity probe which can be installed over 300 feet from the controller. Accessories allow the system to operate in flow, in line and in immersion applications. The installation and the calibration is very easy in each application.

TU 810 Sensor

- For flow, in-line and immersion applications
- Nephelometric method
- IR light
- Cable length up to 300 feet
- Sample flow 0.05-6.0 gpm
- Sample pressure 90 psi max. at 20° C
- Sample temperature 0-40° C
- Built-in preamplifier
- IP67 connector
- Accessories



Specifications for TU 7685

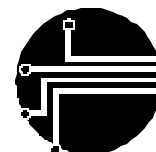
Operating mode: Automatic/Manual
Measuring unit: NTU/mg/l/ppm
Range: 0-4/0-40/0-400/0-4000 NTU
0-10.0/0-100.0/0-1000/0-10,000 ppm of SiO₂
Resolution: 0.05% of scale
Zero of the probe: 0.0-10.0% f.s.
Sensitivity: 80.0-120.0%
Set point A/B: ON-OFF
Hysteresis: 0-10% of the scale
Relay delay: 0.0-99.9 Sec
Relay contacts: 5A 220 V
Low/high alarm: 0 to full scale
Autoclean: Manual/Auto+Manual
Analog output: 0-20/4-20 mA isolated
Response time: 10 Sec for 98% of input
R max: 600 Ohm
Humidity: 95% without condensation
Power: 110\220 VAC +/-10% 50/60 Hz 5VA
Isolation: 4000 V (IEC 348)
Dimensions: 96 x 96 x 155 mm DIN 43700

505-334-5865 ph 505-334-5867 fax

www.rodissystems.com

email:info@rodissystems.com

936 Highway 516 Aztec, NM 87410-2828



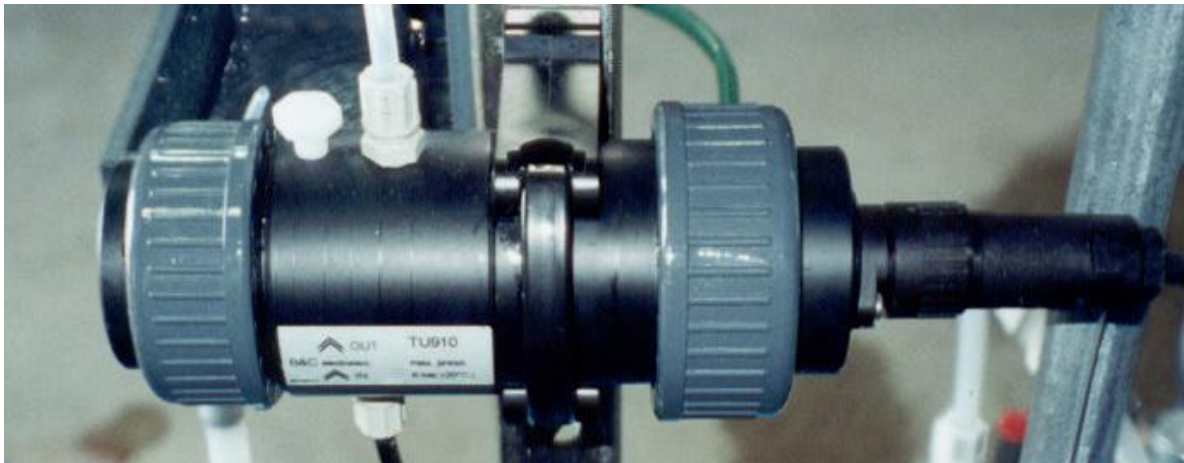
RODI
systems

Specifications for TU 810 Sensor

Range: 0-4000 NTU
Resolution: 0.001 on scale 0-4.000 NTU
0.01 on scale 0-40.00 NTU
0.1 on scale 0-400.0 NTU
1 on scale 0-4000 NTU
Accuracy: +/- 5% of reading on 0-400 NTU
+/- 10% of reading on 400-4000 NTU
Response time: 10 Sec
Measuring method: Nephelometric
Light Source: LED IR 890 nm
Preamplifier: built-in
Power: +/- 12 VDC from TU7685
Ambient temperature: 0-50° C
Sample temperature: 0-50° C

Specifications for TU 910 Flow Cell

Flow of sample: 0.05-6.0 gpm
Temperature: 0-50° C
Temperature of sample: 0-50° C
Pressure of sample: 90 psi max. a 20° C
Material: PVC
Fixing of probe: 2 ½" nut (DN50)
Fittings: ¼"



TU 810 Sensor Mounted in TU 910 Flow Cell

505-334-5865 ph 505-334-5867 fax
www.rodissystems.com
email: info@rodissystems.com
936 Highway 516 Aztec, NM 87410-2828

