

# Electrochemical Monitors

## TU 7685

Turbidity and Suspended solids



Add the following to the common Features/Specifications of the 7685 Series shown overleaf

- Input from preamplified sensor
- Manual, automatic and simulated operation
- Selectable scales:  
0/4.000 0/40.00 0/400.0 0/4,000 NTU  
0/4.000 0/40.00 0/400.0 0/4,000 mg/l of PSL  
0/9.999 0/99.99 0/999.9 0/9,999 mg/l of SiO<sub>2</sub>
- Autoranging
- Dual filter software
- Alphanumeric backlit display
- 0/20 or 4/20 mA selectable output, programmable on the input scale
- 2 Set point with min/max function, hysteresis and adjustable delay
- Continuous/flashing alarm
- Alarm: min/max turbidity, set point timing, dirty lens, empty cell, external light too high
- Check signal of dirty lens
- Autoclean relay with programmable cycle repetition, cleaning and holding time
- 3 access levels: display, calibration and configuration of process parameters
- 110/220 Vac with overload power protection
- Dimensions: 96x96x155 mm DIN 43700
- Panel mounting

This instrument is designed to operate together with TU 810, TU 8105 and TU 8182 amplified Turbidity probe which can be installed over 100 m far from the controller.

In addition, the software allows to use the probe TU 820 (USEPA 180.1 method).

Accessories allow the system to operate in flow, in line and in immersion applications.

## Specifications

**Operating mode:** Automatic/Manual

**Measuring unit:** NTU/mg/l

**Range:** 4/400 NTU - 40/4,000 NTU

4/400 - 40/4,000 mg/l of PSL

9/999 - 99/9,999 mg/l of SiO<sub>2</sub>

**Filter software 90%RT:** 5/220 s for small/large variations

**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 s

**Relay contacts:** 5 A 220 V

**Low/high alarm:** 0 to full scale

**Autoclean:** Manual/Auto+Manual

**Analog output:** 0-20/4-20 mA isolated

**Response time:** 10 s for 98% of input

**R max:** 600 ohm

**Serial output:** RS232 option 091.701

**Humidity:** 95% without condensate

**Power:** 110/220 Vac +/-10% 50/60 Hz 5 VA max

**Isolation:** 4000 V (IEC 348)

**Dimensions:** 96x96x155 mm (1/4 DIN)

### Options

**091.3713:** Dual analog output

**091.4141:** 9/36 VDC power supply

*The technical specifications may be changed without notice*

## Measuring probes

### TU 810 - TU 820

Turbidity probe in PVC body

### TU 8105

Turbidity probe in PVFD body

### TU 8182

Turbidity probe autoclean submersible in PVC body

## Accessories

- **SZ 9481** Connector + 10 m cable
- **SZ 9483** Connector + 30 m cable
- **TU 910** Flow cell for TU 810, TU 8105 or TU 820
- **Formazine Standard solutions**