

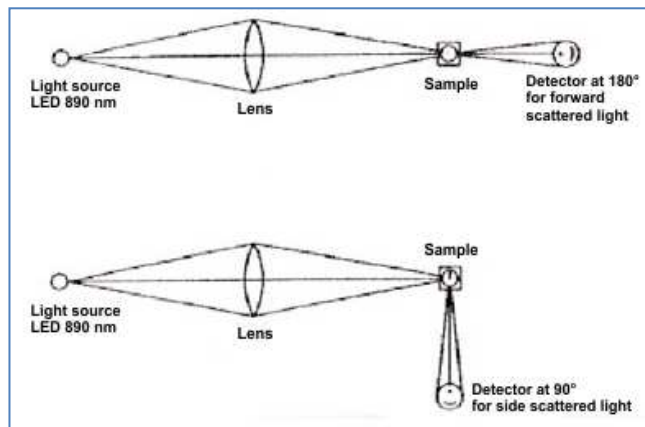
CTS07 – TURBIDITY CELLS



Measurement Cell

The CTS07 turbidity cells are compliant with the ISO7027 international standard and European regulation for electromagnetic compatibility.

The light source generates a constant beam that passes through the sample, and the output light intensity is detected by a photodiode positioned at 180° for turbidity meter (“Forward Scattering” technology) or at 90° for nephelometer (“Side Scattering” technology).



The signal coming from the cell is amplified and then transmitted to the electronic unit, which can be located even quite far: for example, you can install the cell near the plant and the instrument on the electrical panel.



Automatic Cleaning System

The automatic cleaning unit has been designed to perform an accurate cleaning of the critical area inside the reading chamber of the turbidity cell. The cleaning schedule can be set by the user. The cleaning tool is a nylon brush, driven by its shaft and performing rotational movements inside the chamber to be cleaned.

Two versions are available:

CTS07-SS range from 0.0 to 100.0 FTU (NTU), SS (= Side Scattering) technology

CTS07-FS range from 0 to 500 FTU, FS (= Forward Scattering) technology

The complete system includes the measure cell, pre-amplifier and optional automatic cleaning unit, already mounted on a panel.

TECHNICAL DATA

Materials	antistatic polyethylene cell body & optical groups; other plastic parts are PVC; tempered crystal lenses; NBR gaskets
Working Conditions	temperature max 60 °C,
Working Pressure	max 3 bar
Non-linearity Error	max 0.5% FS
Liquid Inlet and Outlet	¼" GAS thread with 12 mm hose
Light Source	high efficiency, red LED

Item	Description	Part No.
CTS07-SS	Panel complete with turbidity cell, range up to 100.0 FTU (NTU)	85700040
CTS07-FS	Panel complete with turbidity cell, range up to 500.0 FTU	85700041
ATS96	Automatic cleaning system for 100 FTU and 500 FTU cells	85700035