



SMRI Turbidity Meter

PRINCIPLE OF OPERATION

The instrument was designed by the South African Sugar Milling Research Institute (SMRI). It is an on-line photometer which measures the absorbance of light by the sugar solution at 880 nanometers. The measurement at this wave length is independent of colour, thus giving a reading which is only dependent on turbidity.

The zero is checked automatically by passing clean water through the measuring cell and updating the reference light level hourly. This also compensates for any cell fouling.

The instrument was designed to measure the turbidity of clear juice to check on the performance of the clarifier. It has also been used to monitor the filtrate from Dorr Oliver Filters enabling them to be operated at optimum efficiency and also on a syrup clarifier.

FEATURES OF A SMRI TURBIDITY METER

- Measures turbidity of various sugar products (particularly clear juice).
- Self calibrating with automatic calibration checks hourly.
- Automatic compensation for cell fouling.
- Easy to use menu keypad.
- 4-20 mA output.
- Simple maintenance. Cleaning of cell windows required once per week.
- Alarms for instrument malfunction and measurements out of limits.
- Solid state light sources and sensors for extreme ruggedness.



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