

PRODUCT APPLICATION NOTE

SN0303

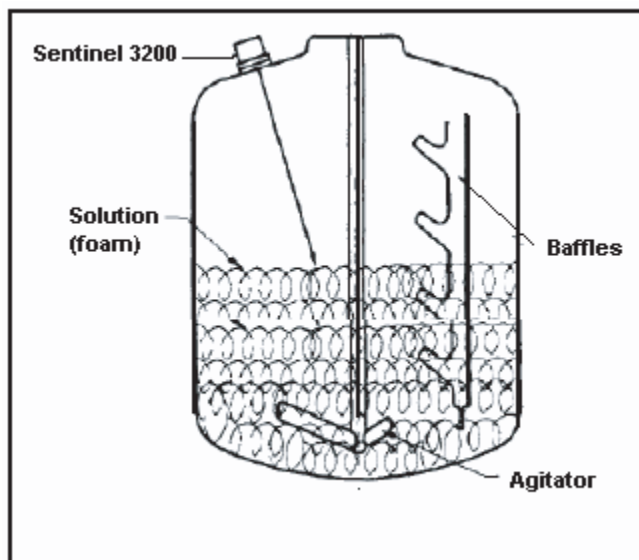
Industry:	Chemical, Pharmaceutical
Type of Application:	Level monitoring of a pharmaceutical chemical
Optech Equipment Used:	Sentinel 3200
Application Description:	The customer required continuous and accurate non-contact level monitoring.

One of the world's largest pharmaceutical companies was looking for a non-contact instrument to measure the level of a pharmaceutical chemical in its tanks. The solution foams at varying heights depending on vacuum conditions and temperature. Turbulence is also present as a result of agitation. The area is classified as Class I Div I, requiring a sensor that is explosion-proof. Baffles and an agitator are also present in the tank, placing additional restrictions on the measurement technology used.

The Sentinel 3200 was tested successfully and installed by the customer. The Sentinel 3200 is ideal for this application, since the solution has good optical properties and the Sentinel 3200's narrow beam allows for an unobstructed line of sight to the product. Readings from the agitator blades are easily programmed out during commissioning. Several other processes are carried out in the same tank with solutions that have similar optical characteristics, enabling the sensor to be used in every application. This is very important to the customer, who does not want to install several sensors for one tank.

KEY ADVANTAGES OF LASER TECHNOLOGY IN LEVEL MEASUREMENT

- Measurements unaffected by off-gas layers
- Measurements unaffected by vapour pressure
- Measurements unaffected by temperature variations
- Measurements can be made to virtually any surface condition such as those caused by agitation
- Narrow beam allows the laser to shoot through narrow openings



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