

**REFEX™**  
sensors ltd

*"The First to Last"*



Invented in  
**Germany**

# REFEX™ AUTOCLAVABLE pH Sensors for BioTech Fermentation processes

**The Reflex BioTech electrodes withstand 30 cycles of steam sterilization either mounted in-situ or in an autoclave at 121°C for 30 mins.**

The Reflex reference junction is a patented non porous ionically conductive polymeric interface/barrier that prevents all liquid contact and exchange between the KCl electrolyte and the fermentation "broth". The non porous interface prevents any KCl salt loss and contamination of the "broth".

Porous/open reference junctions are prone to biological dead space and batch-to-batch carry over contamination. This is risky.

The Reflex Non Porous ionically conductive reference interface prevents any dead space batch to batch contamination risk.

The pH glass membrane survives a minimum of 30 steam Sterilizations.

The Reflex reference with the non-porous interface is still good after 200 steam Sterilizations.

The Reflex electrodes shown are pH/Reflex combination electrodes.

Separate pH glass and separate Reflex electrodes are available on request.

## Specifications:

pH range: 0 - 12  
Temp °C: 0 - 100°C  
Pressure: Vacuum to 30 BAR  
Autoclavable: 121°C for 30 mins  
Impedance: pH glass «400 MOhm  
Reference « 50 KOhm  
Reference: Ag/AgCl KCl 2.8 mol/l  
Sealed for Life  
Ref. Junction: Non Porous interface  
Connector: S8 with PG 13.5 Thread Blanking Cap



S8-BT-2001-120mm  
S8-BT-2001-225mm  
S8-BT-2001-325mm

## REFEX sensors ltd.

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