## ph MEASUREMENT SOLUTION FOR BATCH PROCESS

An Immersion pH measurement solution for Chemical Batch Process with Slurry media





भाभा परमाणु अनुसंधान केंद्र BHABHA ATOMIC RESEARCH CENTRE

Trombey, Mumbai- 400085



## pH measurement : Why important

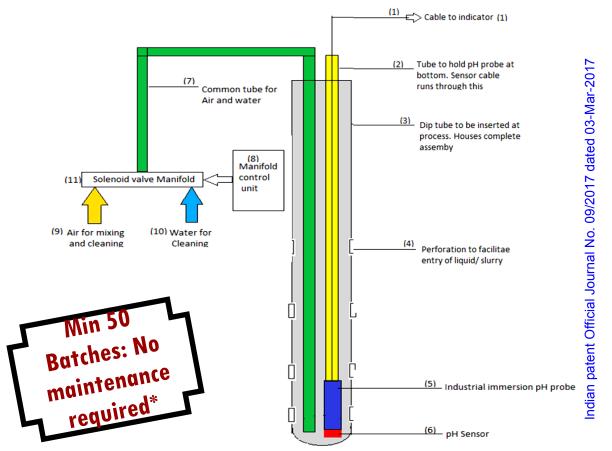
- Maintain quality of product : Pharmaceutical, Paint, Chemical Industry etc.
- Monitor progress of chemical reaction
- Maintain quality of effluent discharged : Chemical, Nuclear etc.

## pH Concerns in Industrial Batch Process (Conventional sensor assembly)

- 1. Cleaning of probe: Improper cleaning can result into erratic response. Reduces life.
- 2. Sensor drying: The sensing membrane may permanently damage if exposed in dry atmosphere.
- 3. Frequent calibration

## A New Design of Sensor Assembly

- 1. Facilitate mixing of liquid at probe area for faster and real-time measurement.
- 2. The system Cleans sensor after every batch.
- 3. Prevents sensor drying.
- 4. Reduces manpower: No retractable part, less frequency of calibration.
- 5. Multiplies sensor life. Suitable for repetitive and long term use.
- 6. Cost Effective.



\* 50 Batch process involving slurry media: Each batch of 6 hours duration

For details on the product and Technology Transfer please contact: bikram@barc.gov.in, Ph- 022-25596422