

## Industrial High Temperature pH Sensor

### MS pH 21



#### FEATURE

- Double junction
- Filled with HGel+ gel suitable for demanding application
- Industrial Grade Rugged Construction
- Upto 140°C Operating Temperature
- Upto 6 Bar @ 25°C
- Suitable for Highly Acidic & Alkaline application
- PTFE (Teflon) body for Harsh Application
- Optionally Built in Temperature Compensation
- Easy Installation

#### DESCRIPTION

MicroSet make pH Sensor model MS pH 21 is designed for various Industrial Applications. Double junction & HGel+ reference aids in the sensor's resistance to harsh environments helps prolong sensor life. The robust sensor design makes the MS pH 21 reliable in a wide range of aqueous solutions found in pipelines, open tanks, scrubbers or ponds.

#### TECHNICAL SPECIFICATION

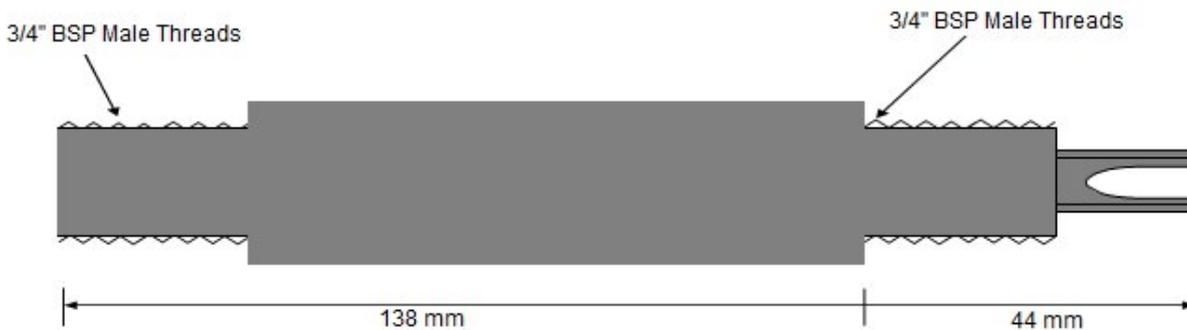
Range	: 0 to14 pH
Body MOC	: PTFE
Type	: Combination
Sensor Output	: mV ( $\pm 59.4$ mV/pH change at 25°C)
Pressure	: 6 Bar @ 25°C
Temperature	: 0 ~ 140°C
Temperature Compensation	: Pt 100 (Optional)
Shape of Membrane	: Spherical, green glass
Junction	: double junction, Ceramic

- Reference Electrolyte : HGel+
- Reference System : Ag/ Ag Wire (Double Junction)
- Process Connection : 3/4" BSPM on Front End and Rear End
- Mounting : Pipeline (Inline) or Immersion (Tank) or Flow Through Chamber
- Cable : Standard Integral Cable 5 Meter with BNC (Optional Leads)  
 Cable Length: 10, 15 Meters also available at extra cost  
 Please specify Cable Length required while ordering  
 Note: Integral Cable Cannot Be Extended from 5 Mtrs. to 10 Mtrs. or so.

## APPLICATION

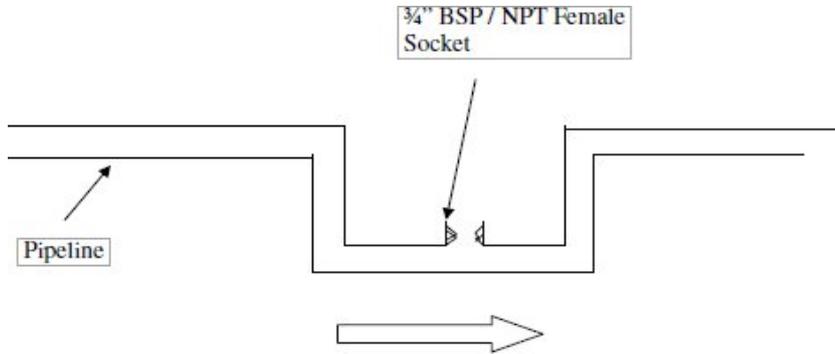
- |                                |                                   |
|--------------------------------|-----------------------------------|
| Water Treatment Plant (WTP)    | Wastewater Treatment Plant (WWTP) |
| Effluent Treatment Plant (ETP) | Sewage Treatment Plant (STP)      |
| RO Water Plant                 | Power Plant                       |
| Hydroponics                    | Chemical Industry                 |
| Textile Industry               | Paper & Pulp                      |
| Beverages / Food Industry      | Pharma Industry                   |

## DIMENSION



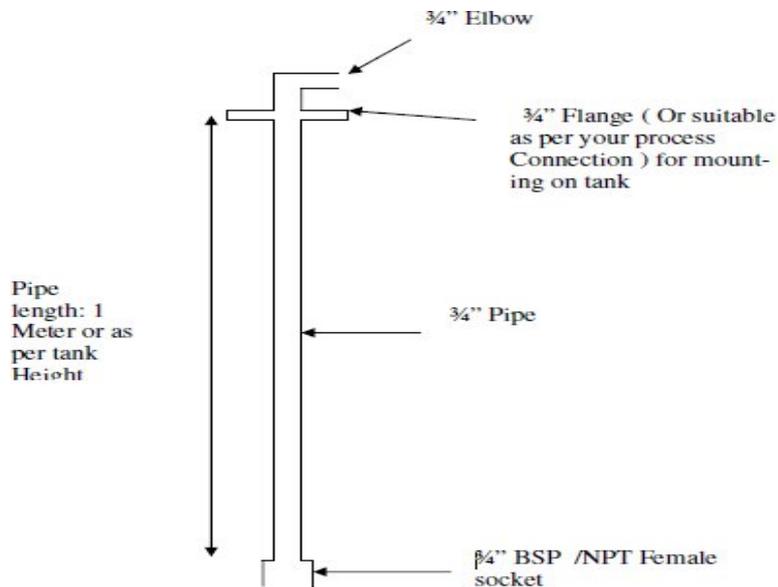
## INSTALLATION

### 1. PIPELINE (IN-LINE) INSTALLATION



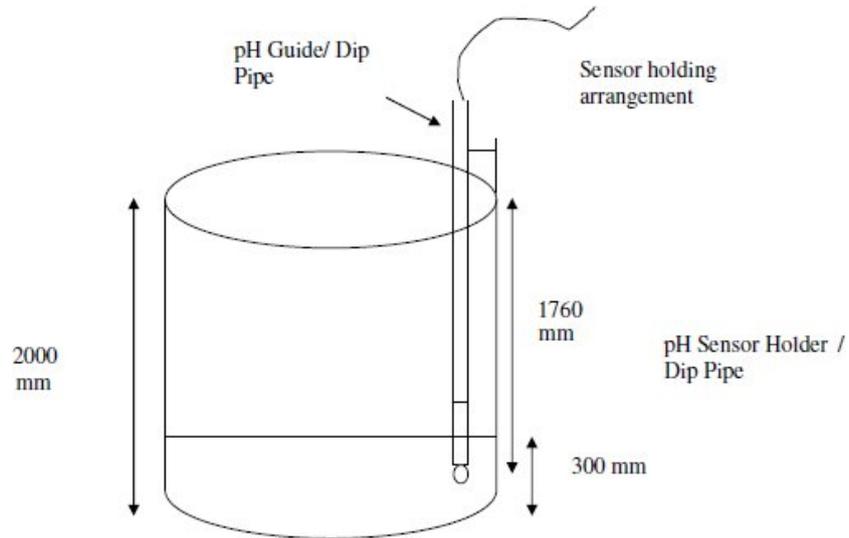
### 2. IMMERSION (TANK) INSTALLATION

#### A. GA Diagram for Guide Pipe / Dip Pipe for Tank:



MOC of Pipe / Socket / Flange : SS304 / SS 316 / PP / PVC as per Application  
 Note: Fabricate the dip pipe in a way that pH sensor should always dip in solution

## B. GA Diagram for pH Sensor Installation in Tank



Example:

- Tank Height : 2000 mm
- Minimum Water Level : 300 mm
- pH Sensor with Dip Pipe Length : 1760 mm (from top). Sensor should be installed in a way that the sensor should not dry at any cost.

Note: Due to continuous improvement in product, specifications & looks may vary