**6632** – Sulfide Resistant pH Sensor for Inline, Immersion & Submersible Installations

¾” MNPT on Front for Inline Use & ¾” MNPT on Rear for Immersion / Submersible Use 

*6632 is now a special order model with minimum order quantities (MOQ) required. Please see models 5631 and/or 6631 as alternates without any MOQ requirement.*

Front threads interface ¾” FNPT of tee or process tank for Inline Use or Rear threads interface ¾” FNPT of insertion tube for immersion or waterproofing seal for submersion

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**Sensor Part Number & Short Description:**

**Configuration Type:**

**General Sensor Specifications:**

Operating Temperature Range: -5 to 105°C (-35 to 150°C with Extreme Dehydration Resistant "E" Option – PVDF Only)

Operating Pressure Range: 1 to 100 psig (6.9 to 690 kPa) with ¾” MNPT Front Threads for Inline Installations

Sensor Body Material: RADEL® R-5000 NT (Poly-Phenyl-Sulfone, PPSU)

Junction Support Matrix Material: KYNAR® (Poly-Vinylidene-Fluoride, PVDF) Standard or Polypropylene (PP) - 6632PP

**External Dimensions:** See Drawing 6-5

**pH Measurement Specifications:**

Measurement pH Range: 0 to 14 pH (-0.5 to +14.5 with Wide Range Option Invoked, Alpha Prefix "V")

Measuring Glass Type: Hemispherical, Green Glass (MUGG)

pH Glass Dimensions: 0.315” (8.0 mm) DIA, 0.354” (9.0 mm) DIA with Low-Impedance (“Z”) Option

Initial Impedance: < 800 MΩ @ 25 °C, < 400 MΩ @ 25 °C with Low-Impedance (“Z”) Option

Sodium Ion Error: Less than 0.15 pH in sodium (Na⁺) solutions at pH 14.00

Acidic Error: Less than 0.05 pH in hydrochloric acid (HCl) solutions at 0.00 pH

**Reference System Specifications:**

Type: Double Junction Standard (Triple Junction Optional, Alpha Prefix “TJ”)

Reference Half Cell: Ag/AgCl, Saturated KCl

Primary Junction: Porous Ceramic, Sat. KCl in crosslinked polymer, Interfaced to Secondary Junction

Secondary Junction: Solid-State Non-Porous Cross-Linked Polymer embedded in Kynar/Polypropylene Matrix holds excess KCl assuring saturation at all temps for stability & long sensor service life

Supported Order Options with Alpha Prefix Order Code Designation:


**Inquire to factory for specials**

**Example Recommended Applications:**

Any process media containing free sulfide species such as hydrogen sulfide gas (H₂S), hydrogen sulfide (HS⁻) or sulfide ions (S²⁻). When slurries are present use 6332 option.

Any measurement where aggressive chemical cleaning is needed to remove fouling or low-maintenance operation is required with minimal cleaning and re-calibration.

**Storage and Shelf Life:**

One (1) year from date of dispatch from factory when stored at indoor ambient room temperature with proper orientation & protector cap. Extreme Dehydration Resistant Option (Alpha Prefix “E”) sensors are suitable for cold storage down to -35 °C (-31 °F).

**Available Configurations & Options:**

**Integrated Components:**

- Temperature Compensation Element (compatible type must be specified)
- Solution Ground Liquid Earth, 316SS (alpha prefix “Y”), or Platinum (alpha prefix “Pt”)
- Analog Conventional or Differential Preamplifier (Contact factory for available options)
- Smart digital sensor board for use with 3TX-HIQ-pH Intelligent pH & ORP transmitters

**Analog Sensors without integral preamplifier:** Terminated with Male BNC connector (-MBNC) or Tinned Lead Wires (-TL)

**Analog Sensors with integral preamplifier:** Terminated with Tinned Lead Wires (-TL) or Quick Disconnect NEMA 6P Snap (-Q7M)

**Analog Dual pH & ORP All-in-one Sensors without integral preamplifier style only:** Terminated with tinned lead wires (-TL), Alpha Prefix “PD”, 2 each reference half-cells allow for simultaneous use on two completely separate input channels or transmitters

**Digital Smart Sensors:** Terminated with IP67/NEMA 6P rated waterproof & corrosion resistant snap connector.

For 3TX-HIQ-pH Intelligent pH/ORP transmitters or HiQDST style with RS-485 MODBUS RTU to interface with any suitable PLC or SCADA (Minimum Quantities may apply)

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**Advanced Sensor Technologies U.S.A. Website: www.astisensor.com IOTRON™ Is Trademark of ASTI**
1. All dimensions are in inches, unless otherwise indicated with tolerances as detailed below.
2. Sensor body material of construction is CPVC (6X13/6X12), RADEL (6X32), PEEK (6X42), RYTON (6X53/6X54).
3. Drawing shown in the standard with protective tines configuration (4 places, 90 degrees apart).
   The 2 protective tines only "GRO" configuration (2 places, 180 degrees apart) is optional.
4. In the alternate without tines configuration ("NG") the sensor body is exactly 7.5 inches in length.
   The max displacement for hemispherical pH glass is 0.3" yielding a max insertion depth of 1.8 inches
   past threads & overall max length of 7.8 inches.
5. Do not use any sensor beyond the factory defined maximum temperature or pressure rating.