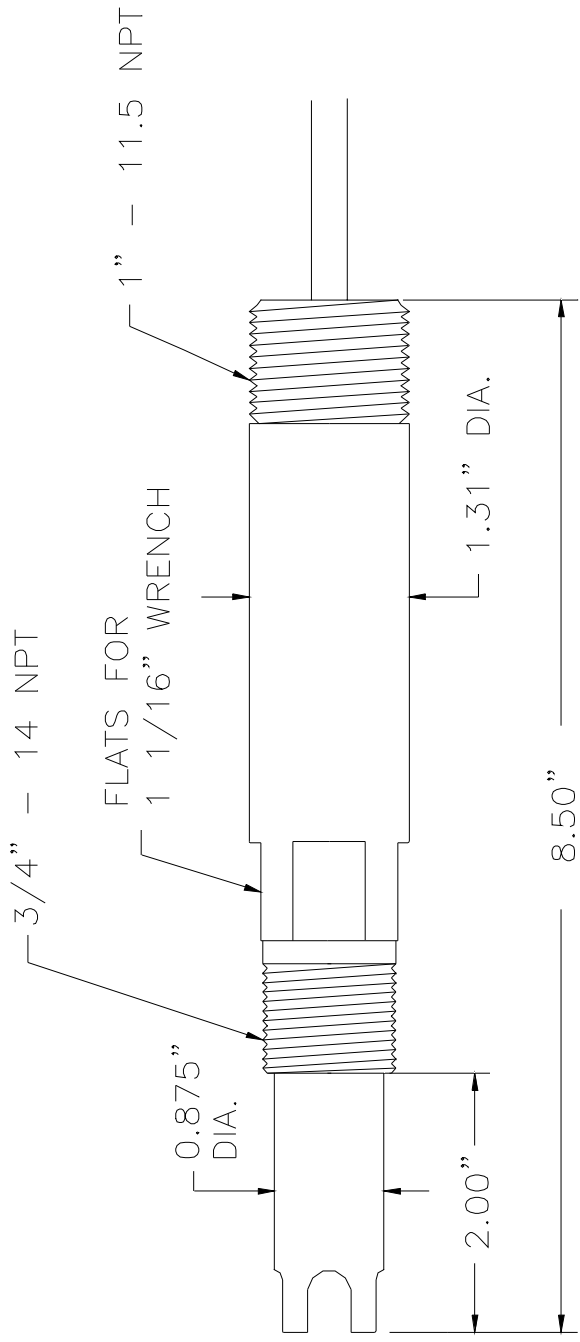


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| <u>Part number:</u> | AB 6620 |
| <u>Configuration:</u> | 3/4" – 1" MNPT Integrated Nitrite Ion Selective Sensor |
| <u>General Specifications:</u> | |
| <u>Concentration Range:</u> | 10 ⁻¹ to 10 ⁻⁵ Molar, 4,600 to 0.460 ppm |
| <u>Lowest Limit of Detection:</u> | 5X10 ⁻⁶ Molar, .230 ppm |
| <u>pH Range:</u> | 2 to 10 pH |
| <u>Temperature Range:</u> | 5 to 40 °C |
| <u>Pressure Range:</u> | 1 to 10 psig (6.9 to 69 kPag) |
| <u>Body Material:</u> | Ultem (Poly-Ether-Imide) |
| <u>Junction Material:</u> | Kynar (Poly-Vinylidene-Fluoride) |
| <u>Dimensions:</u> | Drawing <6-2> |
| <u>Cable:</u> | RG 174/U Coaxial (without preamplifier) |
| <u>Connector:</u> | BNC (unless otherwise specified) |
| <u>Ion Sensor Specifications:</u> | |
| <u>Measuring Membrane:</u> | Selective Nitrite Sensitive Membrane (organic) |
| <u>Dimensions:</u> | 0.310, (7.8 mm) DIA |
| <u>Initial Impedance:</u> | Less than 100 M Ohms @ 25 °C |
| <u>Interfering Ions:</u> | |
| <u>Given in Ratios of Permissible Excess:</u> | SCN ⁻ (1.5X10 ³), Benzoate (1X10 ⁴), Acetate (1X10 ⁴), Salicylate (250), HCO ₃ ⁻ (1X10 ⁴), Cl ⁻ (1X10 ⁴), NO ₃ ⁻ (1X10 ⁴) |
| <u>Interfering Ion / Measured Ion (in Molarity)</u> | |
| <u>Reference System Specifications:</u> | |
| <u>Type:</u> | Double Junction |
| <u>Reference Half Cell:</u> | Ag/AgCl, Saturated KCl |
| <u>Primary Junction:</u> | Porous Ceramic, Saturated KCl in crosslinked polymer |
| <u>Secondary Junction:</u> | Porous Kynar, Saturated with Na ₂ SO ₄ in crosslinked polymer |
| <u>Surface Area:</u> | 366,000 mil ² , (236 mm ²) |
| <u>Special Features:</u> | <p>Crosslinked polymer in the reference system is resistant to heat, solvents and to most chemicals. Sensor holds an excess of Na₂SO₄ assuring saturation at all temperatures and extending the life of the sensor.</p> <p>The sensor is designed to resist the interactions of a wide range of chemicals and some solvents used in chemical processes.</p> <p>The construction of the sensor permits easy access to the sensing and reference surfaces for cleaning or inspection.</p> |
| <u>Recommended Applications:</u> | Nitrite ion concentration in aqueous solution from ultrapure water through waste water to industrial process solutions. |
| <u>Storage and Shelf Life:</u> | At room temperature with closed protector cap, 1 year from date of manufacture. |
| <u>Standard Hook-Up Options:</u> | No Preamp - BNC Connector + TC lead wires With Preamp – Multiconductor Lead Wires – See Hook Up Schematics |

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ASTI
 Advanced Sensor Technologies, Inc.
 ION SELECTIVE SENSOR
 REF. DRAWING <6-2>

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| SIZE | DWG NO. | REV |
| Z | #<6-2> | 1 |
| DRAWN BY: PETE CSISZAR | | SCALE: NONE |
| DATE: MARCH, 2003 | | SHEET 1 OF 1 |

4 3 2 1